# MARY WASHINGTON COLLEGE

Academic Catalogue 1973-74/ Bulletin

Academic Catalogue 1973-74/ Bulletin

Mary
Washington
College

Fredericksburg
Virginia 22401

The **Academic Catalogue** contains detailed information concerning the academic requirements and programs of Mary Washington College, including major programs and course offerings. It also includes a directory listing the members of the faculty and staff and of the graduating class of 1972.

For information about admissions requirements, fees and expenses, and financial assistance, consult the **Admissions Catalogue**, which complements this publication. The Admissions Catalogue also contains a general treatment of the College, the faculty, and the student life at Mary Washington College.

For details about the residential life, social rules and regulations, and clubs and organizations at the College, consult the **Student Handbook**.

Mary Washington College Bulletin, Academic Catalogue Issue. Volume 4, Number 3, April, 1973. Published quarterly by Mary Washington College, Fredericksburg, Virginia 22401. Second class postage paid at the Post Office, Fredericksburg, Virginia.

TABLE OF CONTENTS

CALENDAR ..... 5
ACADEMIC REGULATIONS ..... 7
PROGRAM OF STUDIES ..... 20
COURSE OFFERINGS ..... 45
DIRECTORY ..... 148

# CALENDAR

## 1973

### JANUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

### FEBRUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | | | |

### MARCH

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

### APRIL

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

### MAY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

### JUNE

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

### JULY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

### AUGUST

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

### SEPTEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

### OCTOBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

### NOVEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

### DECEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

## 1974

### JANUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 8 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

### FEBRUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | | |

### MARCH

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

### APRIL

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

### MAY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

### JUNE

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

### JULY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

### AUGUST

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

### SEPTEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

### OCTOBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

### NOVEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

### DECEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

## COLLEGE CALENDAR

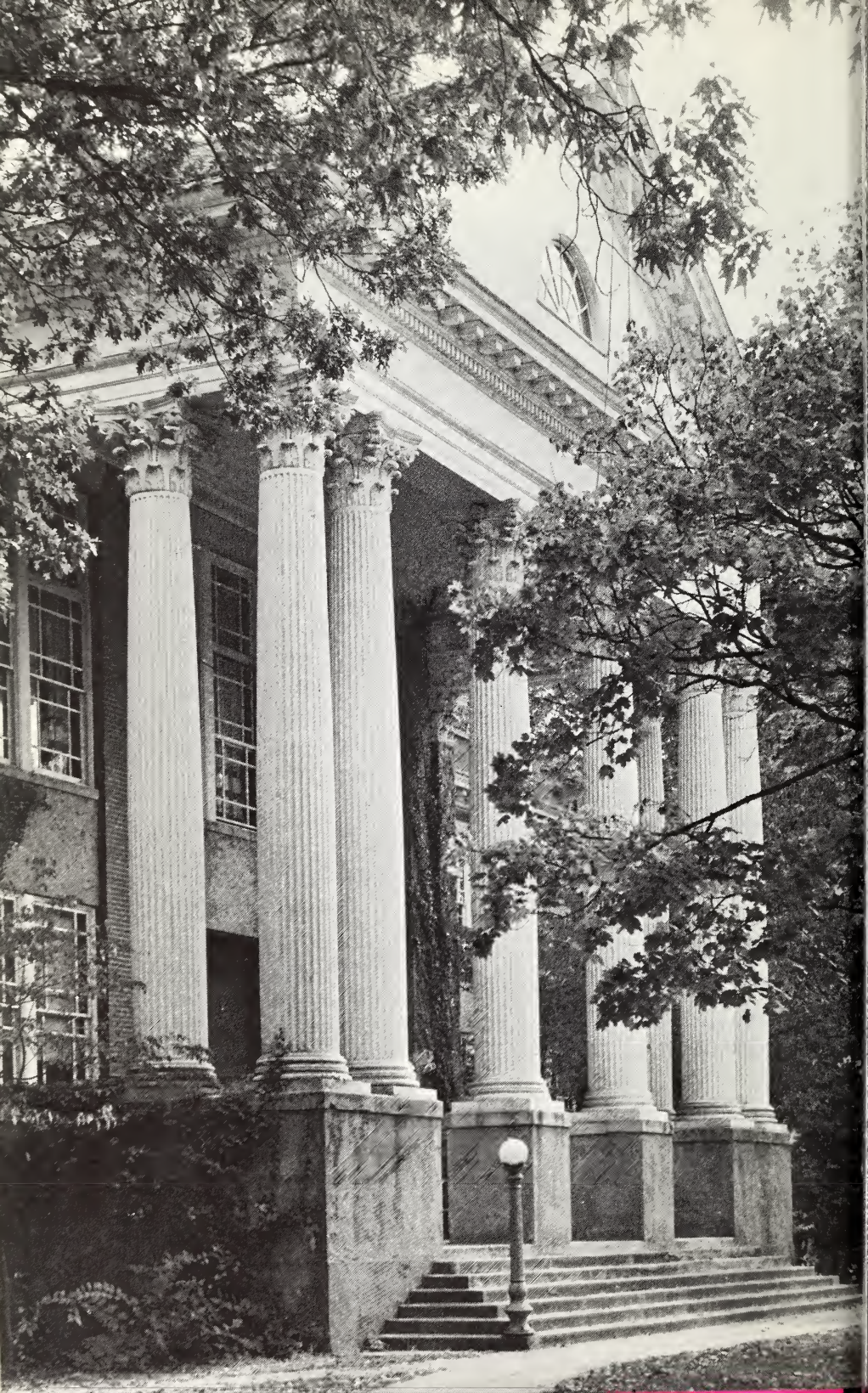
### Session 1973-74

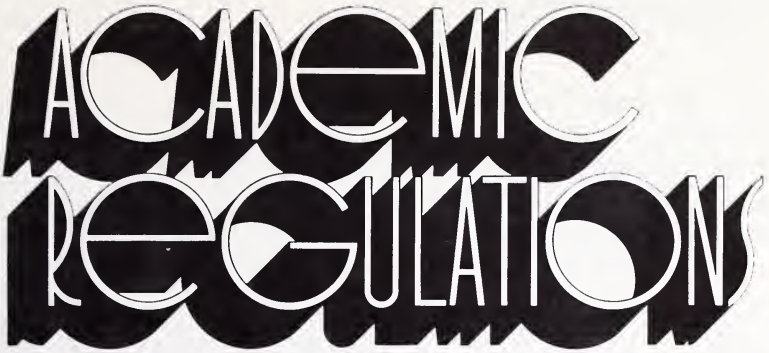
### First Semester

Friday, August 24 . . . . . Residence halls open for new students
Saturday, August 25 . . . . . Freshman advising
Monday, August 27 . . . . . New, special, and part-time student registration
Tuesday, August 28 . . . . . Classes begin
Tuesday, September 4 . . . . . End of add period
Tuesday, September 25 . . . . . End of drop period
Monday, October 15 . . . . . Mid-semester grades due
Wednesday, November 21 . . . . . Thanksgiving holiday begins at 2:05 p.m.
Monday, November 26 . . . . . Thanksgiving holiday ends Classes resume 8:00 a.m.
Wednesday, December 5 . . Second semester registration
Thursday, Friday, December 6-7 . . . . . Reading Days
Saturday, December 8-15 . . . . . Examinations
Friday, December 21 . . . . . Grades due, College closes at 5:00 p.m.

### Second Semester

Friday, January 11 . . . . . Residence halls open for new students
Saturday, January 12 . . . . . New student registration
Monday, January 14 . . . . . Classes begin, special part-time student registration
Monday, March 4 . . . . . Mid-semester grades due
Friday, March 8 . . . . . Spring vacation begins at 5:30 p.m.
Monday, March 18 . . . . . Classes resume at 8:00 a.m.
Wednesday, May 1 . . . . . Registration
Thursday, Friday, May 2-3 . . . . . Reading days
Saturday, May 4-May 11 . . . . . Examinations
Monday, May 13 . . . . . Senior grades due
Thursday, May 16 . . . . . All grades due
Saturday, May 18 . . . . . Graduation






The student is responsible for familiarizing himself with the academic rules and regulations of Mary Washington College. This responsibility includes completing, in their proper sequence, all courses required by a specific degree program. A student is also responsible for keeping informed of changes in academic regulations and for adjusting his program as required by such changes.

In addition, the student should know the consequences of failure to remain in good standing; if he is uncertain about his status or his academic responsibilities, he should consult the Dean, the Assistant Dean for Academic Advising or the academic advisers in the Office of the Dean.

## ORGANIZATION

*Semester Plan*

The College is organized on the semester plan, and students may enter at the beginning of either semester. (See College Calendar.) Beginning sections of certain basic courses are offered in the second semester, and students who enter the second semester in January are given special orientation to help them adjust readily to the College.

*Summer Session*

The Summer Session is an integral part of the school year, offering both regularly established courses and special programs, and workshops of a more experimental nature. The Summer Catalogue is distributed in December or January preceding the summer session.

Although the majority of students spend four years in col-

lege, the work for a degree at Mary Washington College can be completed in three calendar years by attendance at three general sessions and two or three summer sessions. It is possible to complete a semester's work in each of four courses by attending the two six-week summer terms.

High school graduates who would normally enter college in September may begin with the first summer term in May and complete a substantial portion of the first semester's work before the fall term. Summer school catalogues are mailed routinely to students accepted for admission to the College.

Another means of accelerating a degree program is enrollment in the Special Summer School Program for selected high school seniors. Full details about this program are found in the Admissions Catalogue.

## ACADEMIC REGULATIONS

*Classification of Students*

**Freshmen.**—Students with fewer than 28 semester hours of credit.

**Sophomores.**—Students with from 28 to 57 semester hours of credit.

**Juniors.**—Students with from 58 to 89 semester hours of credit.

**Seniors.**—Students with as many as 90 semester hours of credit.

**Specials.**—Students enrolled at the College who are not candidates for a degree.

*Student Load*

A student's class schedule should be planned carefully each semester in consultation with an academic adviser, with care both to ensure normal progress toward graduation and to avoid too heavy an academic load.

In the first year of college, a student should register for not less than 14 or more than 17 credit hours a semester. After the first year a student should ordinarily carry from 15 to 18 credit hours a semester.

No student living in a college residence hall during the regular session may carry less than 12 semester hours without permission from the Dean of Students.

*Progress toward a Degree*

If a student intends to graduate in eight semesters, normal progress toward a degree is as follows: a minimum of 28 hours passed for the first two semesters, and 15-18 hours passed during each of the remaining six semesters -- for a grand total of 122 hours passed.

If a student wishes to accelerate his progress toward a degree, he must consistently take seventeen or eighteen hours a semester, or attend summer sessions.

If a student falls behind normal progress or if he attends part-time, he will have to utilize summer sessions or plan for additional semesters in attendance.

To graduate at the end of any academic session, a student must show a record of at least 104 hours earned at the close of the first semester of that session.

*Requirements for a Degree*

1. An application for a degree must be filed in the Registrar's Office by February 1 before graduation.
2. A candidate for a degree must complete an approved major and earn at least 120 semester hours (in addition to two credits in physical education) as well as twice as many quality points as graded credit hours. That is, a student must achieve at least a 2.0 overall average on all graded courses. Only credits earned at Mary Washington College are used in computing a student's grade point average. Credit for courses taken elsewhere may be counted toward graduation but grades in these courses neither raise nor lower academic standing at the College.
3. The number of quality points earned in courses taken to satisfy the requirements of a major must satisfy a minimum overall 2.0 grade point average.
4. A student failing to have the necessary number of scholarship quality points by the time degree requirements are completed may take additional courses to make up the required number of quality points. All such courses, however, must first be approved by the Dean.
5. A transfer student must also earn at least twice as many quality points as credit hours attempted in all work completed at Mary Washington.

6. A total of at least 60 semester hours of credit from Mary Washington is required for a degree, and, except in the case of cooperative programs, the last semester of a student's work must also be done in residence at the College. At least three fourths of the major must be completed at Mary Washington College.
7. Courses taken for transfer credit must have advance approval of the Dean; if transfer credit is meant to be counted toward a major, advance approval must also be secured from the student's department adviser. Correspondence courses are not accepted for transfer credit.
8. Except in certain carefully structured, preprofessional programs, only a maximum of 12 semester hours is permitted in such vocational subjects as education and home economics.

*Excess Hours*

Only in exceptional circumstances will a student be allowed to carry excess hours (more than 17 hours the first year, more than 18 hours after the first year). Prior written permission to carry excess hours must be obtained from an academic dean.

*Change of Schedule or Courses*

After registration a schedule may not be changed without consultation with an academic adviser.

Only during the first two weeks of classes may courses be added or changes made to or from Pass/Fail. A student may drop a course during the third and fourth weeks of classes in the Office of the Dean with permission from either an adviser or the deans. If a course is dropped after the fourth week of classes a grade of "F" will be recorded unless the instructor certifies that the student was passing at the time of withdrawal. An automatic grade of "F" will be given to any student who drops a course during the final three weeks of classes, or who drops out of a course without permission.

No credit is allowed for a course in which the student is not officially registered and which is not listed on the class schedule filed with the Registrar.

*Class Attendance*

In the educational philosophy of the College, the work in the classroom is an essential part of educational development. Therefore, the College encourages and expects regular class attendance, though it does not impose any set rules. An instructor may require a student whose absences are excessive to withdraw from his course. No less than 25 percent of the total number of class meetings may be considered excessive. The instructor must announce in the first week of the semester whether he will enforce the excessive cut rule. Each student is responsible and accountable for all tests and all material covered in courses whether he has been present in class or not.

Since absences from class immediately preceding or following a holiday are especially discouraged, students should consult the College calendar in making plane and train reservations. Students are not permitted to shift classes or examinations to expedite leaving the College for the weekend, holidays, or any other purpose.

Medical excuses for both residential and nonresidential students must be submitted to the College Infirmary, which will make a report to the Registrar's Office for transmission to each instructor.

Students whose class attendance is unnecessarily irregular may be requested to withdraw from the College.

*Grading*

A student's class performance determines the final grade in any course. Class performance is based on the quality of a student's work as indicated by recitation grades, written tests, examinations, laboratory work, term papers.

Scholarship standing is indicated as follows:

"A" is given for work of unusual excellence.

"B" is given for work distinctly above average.

"C" denotes work of average or medium quality.

"D" is the lowest passing mark and represents work of below average quality.

"Inc." (Incomplete) denotes a course which illness or similar emergency has prevented a student from completing.

Incomplete work not made up by the end of the following semester automatically becomes "F."

"F" denotes failure and requires that the course be taken again and passed before credit can be allowed.

"P" Pass. This indicates that the course requirement has been successfully met.

"S" Satisfactory. This indicates that the course requirement in physical education has been successfully met.

"U" Unsatisfactory. This means that the requirement has not been successfully met and that no credit can be allowed toward a degree.

Credits

Credits earned with a grade of "P" or "S" count toward graduation but carry no quality points.

Pass/Fail -- With approval of an adviser, a student may take one course each semester for a grade of either Pass or Fail. This will carry elective credit but will not meet area or major requirements. The student must register as a Pass/Fail student by the end of the initial two-week drop-add period. After that time no change in status is permitted. Because Pass/Fail credits carry no quality points, they neither raise nor lower a student's grade point average. The credits earned count toward graduation, however, and a "P" or "F" is recorded on the student's transcript. Before electing to use a Pass/Fail option, a student should consider its effect on his opportunity to earn academic awards or distinctions. These are calculated on the basis of a specified minimum number of graded credit hours.

*Credit by Examination*

A student may make written application to a department chairman for examination in an appropriate course (not an independent study or seminar course), for which he has neither been enrolled nor in attendance. If he passes, he will receive the allotted number of credits with a grade of "P," which will neither raise nor lower his grade point average. If he fails the examination, he will receive a grade of "Incom-

plete," which will become an "F" unless he attends and passes the course, or takes another equivalent examination, by the end of the semester immediately following. If a student elects to take the course, he may enroll either for regular credit or on a Pass/Fail basis.

The credit hours will be regarded as part of the student's academic load and, if he is a part-time student, he will pay the regular charges per credit hour.

*Scholarship Quality Points*

Before being graduated a candidate for a degree must have earned at least twice as many quality points as graded semester hours attempted at Mary Washington College. This means that the student must earn a minimum 2.0 or "C" overall grade point average. Courses taken in the major subject in fulfillment of the major program requirements must also average at least 2.0 or "C."

The following quality point system enables students to keep constant check on their standing, and to know at all times whether they are maintaining the overall "C" average required by the College.

For each semester hour earned with a grade of "A" four quality points are allowed.

For each semester hour earned with a grade of "B" three quality points are allowed.

For each semester hour earned with a grade of "C" two quality points are allowed.

For each semester hour earned with a grade of "D" one quality point is allowed.

For each semester hour earned with a grade of "P" no quality point is allowed or required.

For each semester hour earned with a grade of "S" no quality point is allowed or required.

In each case the number of semester hours credit in each course is multiplied by the number of quality points assigned to the grade earned in that course. For example, "A" in a course for which three semester hours credit is allowed entitles the student to twelve quality points. In this same course a grade of "B" would entitle the student to nine quality

points, "C" to six quality points; and "D" to three quality points. No quality points are earned for grades of "F," "P," "S," or "Incomplete."

*Quality-point Average and Hours Toward Graduation*

Quality point average is derived by dividing the total number of *Hours Carried* into the total number of *Quality Points.* The credits listed as *Transfer* and *PF/PE* (pass/fail and physical education) do NOT enter into the calculation of semester or overall averages.

To determine the hours toward graduation, add *Transfer Hours,* and hours of *PF/PE* and *Semester Hours Credit.*

A student is expected to maintain a 2.00 average (a "C" average). If he falls below that, he is placed on academic probation or is suspended.

*Reports, Deficiencies and Failures*

Regular reports are mailed to students and parents at the end of each semester. In addition to the semester grades, notice is given of cumulative totals in the number of hours attempted, hours passed, quality points earned, as well as totals in Pass/Fail and P.E. credits.

Students with academic deficiencies are urged to make every effort to remove them as promptly as possible, since in order to graduate they must maintain at least a 2.0 or "C" average in all credit hours attempted, as well as in courses taken to satisfy the major program requirements.

The Dean of the College and the Assistant Deans are ready at all times to confer with students regarding academic problems.

*Repeating A Course*

Courses may be repeated only with prior written permission from an academic dean.

If a student in attendance repeats and passes a course he has previously failed at the College, his record will be credited with the hours passed and the quality points earned. He will not be charged with additional hours attempted.

If a student repeats for quality points a course already passed, he will not be charged with additional hours attempted or passed. The quality points earned on the second grade for the course will be *substituted* for the quality points originally earned in the course.

*Academic Probation and Suspension*

**Probation**

In general, a student is placed on academic probation if he is not making satisfactory progress toward graduation.

1. In terms of credit hours a student will be placed on academic probation if
   a. in any semester, including the first, he fails more than 4 semester hours of work;
   b. in any semester he receives grades of D or F on more than 7 semester hours of work, regardless of the total number of hours or quality points;
   c. at the end of the freshman year he has fewer than 28 semester hours;
   d. at the end of the third semester he has fewer than 43 semester hours;
   e. at the end of the sophomore year he has fewer than 58 semester hours;
   f. at the end of the fifth semester he has fewer than 73 semester hours;
   g. at the end of the junior year he has fewer than 90 semester hours.
2. In terms of quality points a student will be placed on probation if
   a. at any time during the first 5 semesters he falls more than 11 quality points below twice the number of hours attempted;
   b. at the end of the sixth or seventh semester he does not have twice as many quality points as hours attempted.

**Suspension**

A student will be suspended if

1. at any time after the end of the first semester he falls more than 6 credit hours below the minimum standards set forth in section 1 under Probation;

2. he falls more than 19 quality points below twice the number of hours attempted;
3. at the end of the sixth or seventh semester he falls more than 9 quality points below twice the number of hours attempted;
4. he incurs probation for a third time. (For reinstatement after suspension, see the Admissions Catalogue.)

As previously noted, a student may be placed on probation or suspended for either a semester hour or quality point deficiency. Under usual circumstances a student will not be granted probationary status for more than 2 semesters. A student who is suspended for the first time may be readmitted on probation by taking in the summer school of this College at least 8 semester hours of new work and earning a "C" average on this work. A student seeking such reinstatement must do so ordinarily in the summer session immediately following the academic suspension.

All decisions on academic probation and suspension are based solely on work actually completed and recorded at the close of the grading period for the semester. *Incompletes* are counted among hours attempted. So if a student faces probation or suspension because of *Incompletes,* he must inform the Dean's office of the emergency responsible for the unfinished courses.

*Withdrawal*

**Voluntary Withdrawal**

A student wishing to withdraw from the College must inform the Dean of Students and, if a minor, must have advance consent of a parent or guardian.

**Enforced Withdrawal**

Students who continuously fail to meet the academic standards of the College may be asked to withdraw or not to return to Mary Washington.

**Withdrawal While on Probation**

A student who withdraws from the College while on academic probation for academic deficiency normally is not

eligible for readmission. Upon request by the student, special consideration for readmission may be granted by the Committee on Admissions.

*Marriage*

A student entering into marriage prior to college enrollment or during attendance at college (including summer and other vacation periods) is ineligible to remain in residence except with special permission. Any change in status must be discussed in advance with the Dean of Students. Each case is considered on its individual merits.

*Transcripts*

The Office of the Registrar will issue transcripts or copies of the student's academic record at Mary Washington. Official copies bearing the signature of the Transcript Clerk, the date, and the College seal are sent directly to another institution or agency. Copies given to the student for his personal use are stamped "student copy." Transcripts are issued only upon written authorization of the student.

The fee for the copying, mailing and handling of a single transcript is $2.00, with an added fee of $1.00 for each additional transcript sent to the same address in the same mailing.

## RECOGNITION OF ACADEMIC ACHIEVEMENT

*The Dean's List*

A student carrying at least 12 hours of new work on which quality points may be computed at the close of a grading period and who attains a grade-point average of 3.50 or better for any semester is placed on the Dean's List of Honor Students. Only quality points earned in courses taken for the first time may be counted for academic honors.

*Intermediate Honors*

A student at Mary Washington College who, as a freshman and sophomore, has achieved a 3.75 grade-point average is awarded Intermediate Honors at the President's Convocation held during the first week of the session. To be eligible for Intermediate Honors, a student must have com-

pleted at least 58 credit hours, of which at least 44 must be work on which quality points may be computed.

*Final Honors*

A student who, as a junior and senior, attains a 3.75 average is awarded Final Honors at the graduating exercises held at the end of the session. To be eligible for Final Honors, a student must have completed at least 58 credit hours during the last four semesters. At least 44 hours must be work on which quality points may be computed.

*Academic Distinction*

General academic attainment of graduating seniors will be recognized through the awards of Distinction, High Distinction and Highest Distinction, based solely on the student's academic average at Mary Washington College. The level of attainment for each award is as follows: Distinction: 3.25; High Distinction: 3.50; Highest Distinction: 3.75. A student may receive both departmental honors and one of the distinction awards.

To be graduated with Distinction, High Distinction or Highest Distinction, a student must have earned at least 94 hours on which quality points may be computed.

*Awards*

**Colgate W. Darden, Jr., Award**

This award was established in 1960 in honor of Colgate W. Darden, Jr., who was President of the University of Virginia from 1947 to 1959. It consists of a medal, designed by Gaetano Cecere, formerly of the Art Department, and also a cash sum. It is presented to the senior having the highest academic average.

To be eligible for the Darden Award a student must have earned at least 94 hours on which quality points may be computed.

This award was made in June, 1972, to Miss Ann Mitchell Bowling of Accomac, Virginia.

**Award by the Alumni Association**

An award is presented annually by the Alumni Association at the Senior Convocation to that member of the graduating class who, during his years at Mary Washington College, has distinguished himself by academic achievement and outstanding service to the College.

This award was made in April, 1972, to Miss Ann Mitchell Bowling of Accomac, Virginia.

**Alpha Phi Sigma Award**

The Alpha Phi Sigma honorary scholarship fraternity makes an annual award to the junior who made the highest academic average during the freshman and sophomore years. The presentation is made at the President's Convocation at the opening of the session.

This award was presented in September, 1972, to Miss Vicky Ellen Hunt of Richmond, Virginia.

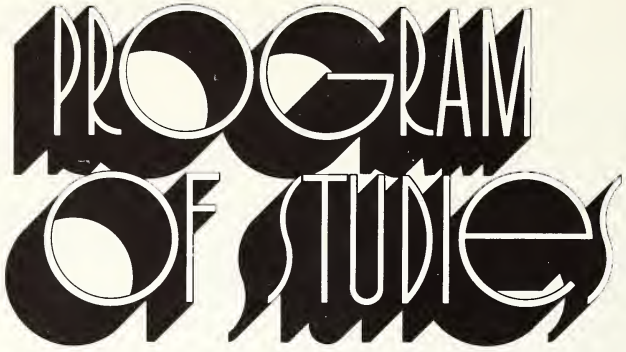
**Grellet C. Simpson Award**

The Grellet C. Simpson Award has been made possible by an anonymous donor and is presented each year at graduation to a faculty member in recognition of excellence in undergraduate teaching. In May, 1972, this recognition was achieved by Miss Carmen L. Rivera, Professor of Modern Languages.

*Grants for Furthering Undergraduate Research*

Funds from a private source are made available annually to support five or more student individual study projects with an allowance of up to $500 per project. These grants will be awarded on a competitive basis to individual students who have registered for the appropriate course and submitted a specific project proposal to the Dean's Committee on Special Degree Programs. The student's project must be sponsored by a faculty member with the approval of the department chairman.

Proposals should be submitted to the committee before the end of the second week of classes for the semester during which the project will be pursued. The announcement of awards is made after the second week of classes. Eleven grants were awarded involving 15 students during 1971-72.




## DEGREES OFFERED

The College currently offers the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Medical Technology. Effective with the Freshmen who entered during the 1971-72 school year, the College will confer the degrees of Bachelor of Arts and Bachelor of Arts in Medical Technology.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Credit for 122 semester hours are required for the Bachelor of Arts degree, distributed as follows:

I. **Basic Requirements.** Two one-semester courses or one one-year course will be required in each of the following areas:
   a. **Literature,** including classics, English, modern foreign languages.
   b. **Humanities,** including art, dance, dramatic arts, music, philosophy, religion, speech.
   c. **Social Science,** including economics, geography, history, political science, psychology, sociology.
   d. **Natural Science and Mathematics,** including biology, chemistry, geology, mathematics, physics.

   No course fulfilling the basic requirements may be counted toward the major program or toward diversification.

II. **Diversification.** At least one third of the program of courses required for graduation must be taken in a subject or subjects other than the major subject for a minimum of 40 semester hours. The courses satisfying the basic requirements are not part of this one third.
III. **Major Program.** Up to one third of the degree program may be required in the major program for a maximum of 40 semester hours.
IV. **Electives.** Additional courses must be taken to complete a total of 120 semester hours, exclusive of the required courses in physical education.
V. **Physical Education.** Each student must take one year of physical education. Up to three additional years of physical education will be credited to the degree, but only one course and one credit per semester.
VI. **Demonstration of Competence.**
    a. **English Composition.** Each student must demonstrate competence in English composition, normally by completing successfully a writing workshop (English 101—three credits) in the Department of English. Some students are exempted from participation in the workshop.
    b. **Foreign Language.** Each student must demonstrate competence equivalent to the completion of the intermediate-level college course in foreign language. Students who do not have four units of a language in secondary school will be required to take the intermediate course unless excused by the department.

*Alternate Degree Program Allowing For Greater Concentration.*

This program allows the student with an exceptional background and particular needs to take all courses in as few as two areas and to concentrate up to one half of the courses in one subject.

1. Up to one half of the total program may be taken in a major subject.
2. Up to three quarters of the total program may be taken

in a single area. Areas are the same as defined under basic requirements in the previous outline.

3. At least one quarter of the total program required for graduation must be taken in an area other than that including the major subject.

Approval for this program may be requested at any time from admission to college through the junior year. Responsibility for approval lies with The Committee on Special Degree Programs, which will consult with the appropriate departments concerning the student's preparation if the basic requirements have not been completed at the time of application.

*Majors*

A major is a concentration of a maximum of 40 hours in one department or in closely-related courses chosen from several departments. Majors are available in the following subject areas:

American Studies (See page 27, 46)
Art
  Studio Art (See page 48)
  History of Art (See page 47)
Asian Studies (See page 28,53)
Biology (See page 54)
Chemistry (See page 59)
Classical Civilization (See page 28,64)
Dance (See page 96)
Dramatic Arts (See page 65)
Economics (See page 68)
English (See page 83)
French (See page 111)
Geography (See page 88)
Geology (See page 92)
German (See page 114)
History (See page 100)
Latin (See page 61)
Latin American Studies (See page 29,106)
Mathematics (See page 107)
Medical Technology (See page 33)
Music (See page 122)
Philosophy (See page 127)
Physics (See page 131)
Political Economy (See page 73)
Political Science (See page 70)
Pre-Foreign Service (See page 30)
Psychology (See page 132)
Religion (See page 137)
Russian Studies (See page 31)
Sociology (See page 140)
Spanish (See page 118)
Special Majors (See page 24)
Speech Pathology & Audiology (See page 43)

Near the end of the sophomore year, each student may apply to the departmental chairman or the interdepartmental program adviser concerned for permission to undertake a major. In granting this permission, the department will inform the student of the name of his major adviser, who will help him to meet department requirements by outlining a program of studies for the junior and senior years.

*Special Major Program*

To assure maximum flexibility, a student may be permitted to pursue a special major consisting of courses from two or more departments which define a field of concentration. Such a major must be approved before the end of the student's fifth semester and will be implemented as follows:

1. Courses required for the major will be chosen by mutual agreement of the student and faculty adviser and must have the approval of the Committee on Special Degree Programs.
2. The major program must consist of at least eight courses.

*Planning the Total Four-Year Program*

Majors offer opportunities for concentration in a subject area, but the student should remember that the major program and the basic college requirements account for a little more than half of the total program. In planning the full program of studies, students should be guided by specific career objectives, and they should enlist the services of major advisers and of the Academic Counseling Office in the office of the Dean to plan programs that will help them toward their career goals without unnecessary or short-range limitations. Typical examples of planning an overall program are given below. The student should remember, however, that these are only two of hundreds of possible programs within the curriculum:

**Pre-Medical Program**

A student who plans to enter schools of medicine and dentistry should investigate entrance requirements of those schools carefully. He may concentrate in any major, although the student who majors in a non-science field and elects only the minimum number of science courses must excel in these courses in order to ensure adequate preparation. The student should generally take French, German or Russian to satisfy the language requirement, although Latin is usually accepted.

The student in this particular program should expect to take three years of chemistry (general, organic, and analytic), a year of biology and of physics, and at least a semester of mathematics. These are minimum requirements, and further courses in the program should be planned with the major adviser and the pre-medical program adviser; they may include physical chemistry, psychology, chordate anatomy, and genetics.

More information and a typical program may be secured from the pre-medical adviser, Thomas L. Johnson, or from the Assistant Dean for Academic Advising.

**Program in Human Learning**

The student wanting more extensive preparation in education-oriented careers than is afforded by the teacher certification program of the College may plan a program including primary or secondary certification but also including courses to give background for professional specializations, such as special education teacher, educational psychologist, school administrator, instructional supervisor, or guidance counselor.

The major in such a program should be psychology or sociology. The student should include, as basic requirements, part of the major, or diversification, courses in developmental psychology, in psychological testing and measurement, in the psychology of exceptional children; courses in the sociology of human development, in culture, and in social structure; courses in biology, linguistics, and possibly in children's theater and children's literature.

Students interested in such a program may secure more information from the advisers, Paul Slayton and Joseph Holmes, or from the Assistant Dean for Academic Advising.

**Foreign Languages**

Major programs are offered in French, German, Latin, and Spanish. Requirements for these major programs are listed with the course offerings, but students should consult members of the department before choosing courses in related fields.

Students who choose a major program in a foreign language are expected to participate actively in the work of the departmental club promoting the use of that language.

In addition to the major programs in French, German, Latin and Spanish, sequences of elective courses in Greek, Italian, Japanese, Portuguese and Russian are also offered. Any of these languages may be selected to meet the foreign language requirements for a degree.

No credit is given for less than one full year of any beginning and intermediate level of a foreign language.

Credit for a single year in a beginning level of foreign language will be allowed only if it is offered in addition to the degree requirements in foreign language.

Sequence of courses and prerequisite requirements must be strictly followed if credit is expected.

Students who plan to continue the study of a language are urged to enroll in a course in that language in their first year at this College. Experience shows that interruption of continuous study may seriously affect progress in a language.

### Junior Year Abroad

Mary Washington College participates in various junior year abroad programs. Students completing courses in programs approved by the Dean of the College and the chairman of the department of their major interest may receive appropriate transfer credit toward a degree at Mary Washington.

Mary Washington College also is a member of the Cooperative International Program for Teacher Education (CIPTE) administered by the Council on International Educational Exchange. The CIPTE sponsors four study programs abroad.

Further information may be obtained from the Dean of the College.

## INTERDEPARTMENTAL MAJORS

Interdepartmental majors are offered in six fields: (1) American Studies; (2) Asian Studies; (3) Classical Civilization; (4) Latin American Studies; (5) Pre-Foreign Service; and (6) Russian Studies. These majors offer opportunity for a broader preparation in certain areas of study than that afforded by the traditional departmental majors. Other opportunities for interdepartmental majors are available in the special degree programs described on page 24.

Students who select an interdepartmental major are not required to complete the customary departmental major, but they must fulfill all other requirements for a degree. (See page 20.

Since the curriculum for each interdepartmental major is organized in detail, students should plan their programs of study rather carefully in consultation with the adviser listed for the field.

*American Studies*—Adviser: Mr. Glen R. Thomas

The interdepartmental major in American Studies emphasizes as a foundation a balanced program in the following:

1. American history
2. Literature and philosophy
3. Social sciences
4. Fine arts
5. A knowledge of at least one non-American civilization

In addition to 4 required American Studies seminars, a minimum of 24 hours in 300-400 level courses must be taken in a combination of the above areas. Beyond these basic requirements the program stresses flexibility in meeting the interests of the individual majors. A student may, according to his interests, concentrate in one of the above areas.

The general requirements are exactly the same as those for the Bachelor of Arts degree. It is recommended, however,

that prospective majors take Political Science 201-202 to satisfy the requirement in social science.

A major program requires that each student complete the four American Studies seminars in the junior and senior years. No two seminars may be taken concurrently. The remainder of the major program will be planned around the five areas that form the core of the major in close consultation with the program adviser.

*Asian Studies*—Adviser: Mr. James H. Croushore

The Asian Studies major differs from the traditional interdisciplinary majors both in subject matter and method of study. It is built around a core curriculum which is so structured that any of its four components may also be taken for credit by students who are not majors in Asian Studies.

The areas covered at present are South, Southeast, Central and East Asia. The major program can be so arranged in consultation with the adviser that it may serve the special interest of the student.

Independent study, honors work, attendance at summer sessions of universities and institutes offering courses in the Asian field or Asian languages, and study abroad during the sophomore or junior year, particularly in the Orient, will be encouraged. Graduate study would be a natural continuation of the program offered at Mary Washington.

*Classical Civilization*—Adviser: Mrs. Laura Sumner

This interdepartmental major is centered in classical civilization and culture. Courses in the art, philosophy, history, and literature of ancient Greece and Rome constitute the basic requirements. Either Latin or Greek must be taken in addition to a modern language, and both are recommended.

The general requirements are exactly the same as those for the Bachelor of Arts degree, with these exceptions:

(1) French, German, Latin or Greek must be taken to satisfy the language requirement.

(2) Appropriate courses in philosophy and art are recommended to satisfy the humanities requirement.

A major program requires that a student earn 40 credits in courses in classical civilization.

Twelve credits, in addition to the credits used to fulfill the language requirement, in either Latin or Greek must be included in these hours. Other courses in ancient philosophy, art, civilization and archaeology will be worked out by the student and an adviser.

*Latin American Studies*—Adviser: Miss Mary Ellen Stephenson

A person wishing to major in Latin American Studies must complete 36 hours which the director of the program accepts as forming a coherent program concerned with Latin America. This program must include Readings and Research on Latin America (6 credits). The language requirement of the College must be met with a language of Latin America.

The above program is intended to give students interested in humanities and/or social sciences an opportunity to concentrate on the Latin American region. The course, Readings and Research in Latin America, will be a seminar devoted to selected topics in the art, architecture, economics, folklore, geography, history, literature, and politics of Latin America.

Other courses should be drawn from among the following Latin American content courses:

Geography 334, 335
History 321, 322, 323, 324
Political Science 351, 352
Modern foreign languages
Portuguese 491
Spanish 223, 224, 323, 341, 374, 376, 397, 398,485 486

Credit may be allowed for other courses when the particular program of the student seems to warrant their inclusion.

*Pre-Foreign Service*—Adviser: Mr. Victor Fingerhut

The interdepartmental major in pre-Foreign Service is a liberal arts program in which the offerings of certain departments are grouped in such a way as to provide a background in international cultural and political affairs. The program is not meant to imply any guaranteed or preferred access to the Foreign Service of the United States. However, the course of study provides a firm, cross-cultural undergraduate experience for a student wishing to work in one of the many agencies of the United States directly or, after supplementary training, to enter a business firm overseas, to teach in a foreign country, to join the Peace Corps, to work for a domestic organization, institution or foundation having a foreign department, or to continue language, area, or foreign relations studies at a graduate school.

The major program requires that a student earn 54 credits in recommended courses in the following departments:

Modern languages . . . . . 12 credits
Geography . . . . . 9 credits
Political science . . . . . 6 or 9 credits
Economics . . . . . 9 or 6 credits
History . . . . . 6 credits
Philosophy . . . . . 6 credits
English or psychology or sociology . . . . . 6 credits

Ten additional credits are to be selected from cognate courses in various departments. In the event that relevant special courses are announced, the candidate for a degree is expected to take them under this category.

At least one-third of all courses taken must be on the junior and senior levels. Engaging in independent study and participation in honors work, and a junior year abroad are encouraged so as to intensify certain area studies.

*Russian Studies*—Adviser: Mr. Joseph Bozicevic

The interdepartmental major in Russian Studies combines the study of Russian language and literature with cognate courses chosen from various departments in art, drama, economics, English, geography, history, music, political science, and sociology. The general degree requirements are those for the Bachelor of Arts, with an additional six credit hours in a 200-level Russian language course.

The major program requires a minimum of 36 hours. Beyond the basic degree requirements and the 18 credits of core courses, the program remains flexible. A student may pursue his course of study concentrating on:

a) Russian language and literature
b) Social sciences
c) A combination of courses from a minimum of five various related disciplines

**Core Courses** (18 credit hours):

History 357, 358 History of Russia ..... 6 cr.
Russian 221, 222 Introduction to Russian Literature (Selected readings in Russian) .. 6 cr.
Russian 395, 396 Russian Literature in Translation..... 6 cr.

**Other Courses within Major** (minimum of 18 credit hours in addition to core courses) to be selected from the following:

Art 312 Carolingian and Romanesque Art 3 cr.
Dramatic Arts 211, 212 World Drama ..... 6 cr.
Economics 391 Comparative Economic Systems .... 3 cr.
English 231 Short Fiction ..... 3 cr.
English 232 The Novel..... 3 cr.
Geography 326 Geography of the Soviet Union..... 3 cr.
Geography 462 Political Geography..... 3 cr.
History 235 Early Modern Europe, 1618-1815 ..... 3 cr.
History 236 Modern Europe, 1815 to present ..... 3 cr.
History 493, 494 Special Studies in European History..... 6 cr.

Music 111, 112 Survey of Music ..... 6 cr.
Political Science 302 Comparative Government II ... 3 cr.
Political Science 361 Problems of Communism ..... 3 cr.
Russian 381, 382 Soviet Russian Literature
(Selected readings in Russian) .. 6 cr.
Russian 491 Independent Study..... 6 cr.
Russian Studies Seminar..... 6 cr.
Sociology 492 Special Readings..... 3 cr.

Additional courses in Russian literature in translation including Pushkin, Tolstoy, Dostoevsky, Gogol, Turgenev, Chekhov, Gorky, and others will be offered in subsequent years.

## COOPERATIVE PROGRAMS

*Cooperative Program in Medical Technology–*
Adviser: Miss Rose Mary Johnson

The College offers a degree program in Medical Technology in cooperation with the University of Virginia School of Medicine, the Fairfax Hospital, or the Roanoke Memorial Hospital. The curriculum covers three sessions of academic work at Mary Washington College, followed by a twelve-month period of specialized training in medical technology.

On successful completion of the fourth academic year the degree of Bachelor of Arts in Medical Technology will be awarded by Mary Washington College. After satisfactory completion of the twelve-month period, the student will be eligible to take the examinations for registration and certification by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

The number of students who can be admitted to the final twelve-month training period is limited by the facilities available. Admission to the last year of the program, therefore, is based upon scholastic record, demonstrated aptitude, and a personal interview by Medical Technology School representatives. Application for the fourth year should be made about one year prior to entrance. After registration for the second semester of the junior year a transcript must be sent to the Registrar, Registry of Medical Technology, 2100 West Harrison St., Chicago, Ill. 60612, with a $5.00 evaluation fee, for approval. The interview with Medical Technology School representatives will follow.

In the event that a student enrolled in this program should change his interest or not qualify for admission to the clinical laboratories, he may continue with the regular degree program at Mary Washington College and the courses he has taken may be applied to a major in biology or chemistry.

A suggested outline for the first three years of study is given below. It is recommended that the student obtain

a catalogue from the desired school of medical technology as soon as possible so that he may satisfy the specific requirements for entrance to that school.

**Curriculum at Mary Washington College**

*First Year*

| | Semester-hours |
|---|---|
| English composition and/or literature | 3-6 |
| Chemistry 111 112 | 8 |
| Biology 121, 122 | 4-8 |
| Electives (foreign language, history, fine arts, social science) | 12-18 |
| Total | 28-36 |

*Second Year*

| | |
|---|---|
| Literature | 0-3 |
| Biology 121, 122 | 4-8 |
| Chemistry 251-252 | 8 |
| Electives (foreign language, history, fine arts, social science, calculus, statistics) | 18-20 |
| Total | 36 |

*Third Year**

| | |
|---|---|
| Biology 271 | 9 |
| Biology 382-383 | 8 |
| Chemistry 211-212 | 8 |
| Electives (other biology, foreign language, history, social science, psychology, etc.) | 10-12 |
| Total | 30-36 |

*The program for the third year should be planned in consultation with the faculty adviser. Total hours for the three years must be not less than 94.

## Curriculum at University of Virginia School of Medicine

Detailed outlines of the curriculum for the fourth year at the University of Virginia may be obtained from the institution.

The tuition fee for the twelve-month training period at the University of Virginia is $100.00. This does not include maintenance or uniforms. The following fees are also charged: comprehensive and activity fees, approximately $150.00. Enrollees are registered as students of the University of Virginia and housing is available in Mary Munford Hall as well as other selected residence halls. (See University of Virginia catalogue for rates, etc.)

The clinical laboratories of the University of Virginia School of Medicine are approved by the Board of Registry of the American Society of Clinical Pathologists and by the Council on Medical Education and Hospitals of the American Medical Association. Students completing the program as outlined meet the requirements of the Registry of Medical Technologists.

Students desiring to undertake this program should make initial application to the Director of Admissions, Mary Washington College, Fredericksburg, Virginia 22401.

## Curriculum at the Fairfax Hospital Medical Technology Program

The Fairfax Hospital Medical Technology Program is approved by the Council on Medical Education and Hospitals of the American Medical Association.

A monthly stipend is paid to each student. The student must provide his own housing, uniforms and textbooks.

A brochure and application may be obtained by writing the Director, The Fairfax Hospital Medical Technology Program, 3300 Gallows Road, Falls Church, Virginia 22046.

## Curriculum at Roanoke Memorial Hospital School of Medical Technology

Detailed outlines of the curriculum for the fourth year at Roanoke Memorial Hospital may be obtained from the hospital laboratory.

No tuition is charged by the hospital. The hospital furnishes meals in the hospital cafeteria. A stipend of $75 per month is allowed in lieu of a room inasmuch as housing is not available at the hospital. Suitable living quarters are usually available within walking distance of the hospital and representatives of the hospital will assist the student in locating, preferably before classes begin. A textbook is furnished by the hospital. Additional textbooks costing about $50 are required.

A nominal fee is charged by the hospital for the student health program. Hospitalization insurance should be carried by the individual students.

The Roanoke Memorial Hospital School of Medical Technology is approved by the Council on Medical Education of the American Medical Association. Graduates of the school program are eligible for registration by the Registry of Medical Technologists of the American Society of Clinical Pathologists and are required to write the examination for registration.

*Associated Program in Nursing–*

Adviser: Miss Rebecca T. Woosley

The Associated Program in Nursing shared by Mary Washington College and the School of Nursing, University of Virginia is a four-year curriculum leading to the degree of Bachelor of Science in Nursing. This program consists of prescribed lower division courses* prerequisite to the nursing major, and an upper division** nursing major.

Required lower division courses are offered by Mary Washington College; the upper division nursing major is offered by the School of Nursing, University of Virginia, in Charlottesville, Virginia. Satisfactory completion of this program qualifies the graduate for beginning positions in hospitals, clinics, doctors' offices, schools, industry, public health nursing and for commissions in military service. Most full-time students can complete this program in four semesters of study at Mary Washington College, one six-week summer session and four semesters at the School of Nursing, University of Virginia.

Initial application for admission to this program is to be made to Mary Washington College. Appropriate application forms may be obtained from the Director of Admissions, Mary Washington College, Fredericksburg, Virginia 22401.

Candidates for admission to the School of Nursing must meet the following requirements:

1. Completion of the lower division courses of the associated program in nursing offered by Mary Washington College, Fredericksburg, Virginia
2. A cumulative grade point average of 2.00 on courses prerequisite to the nursing major
3. Potential for scholarly achievement and development of professional qualities required of the nurse.

**Application Procedure**

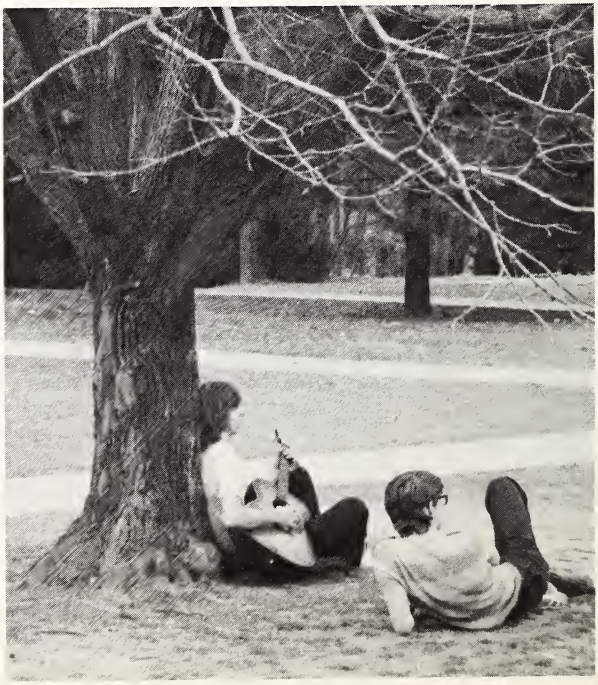
Very early in the fall semester of the second year at Mary

* First and second year of the program
**Third and fourth year of the program

Washington College, students who wish to transfer to the School of Nursing, University of Virginia, should request an application by writing to the Office of Admissions, The Rotunda, University of Virginia, Charlottesville, Virginia 22903. Completed applications must be received by the Office of Admissions before February 1 preceding the summer in which the student expects to enter the nursing program. The student is required to send or have the proper authority send the following to:

Dean of Admissions
The Rotunda, University of Virginia
Charlottesville, Virginia 22903

1. A completed formal application with a recent photograph attached
2. A transcript of high school record or its equivalent
3. Scores attained on the Scholastic Aptitude Test of the College Entrance Examination Board
4. A transcript of all college work at the completion of the second year at Mary Washington College.



*Curriculum Leading to Bachelor of Science in Nursing*

**Lower Division: Courses Prerequisite to the Nursing Major** (to be taken at Mary Washington College)

**Humanities** . . . . . 12 semester hours
Required:

English composition

Balance of credit can be taken in any of the following fields: foreign language, literature, religious studies, speech and drama, fine arts, music or philosophy.

**Social Sciences** . . . . . 18 semester hours
Required:
General psychology
Sociology

Balance of credit can be taken in any of the following fields: psychology, sociology, history, anthropology, economics, government and foreign affairs, geography and political science.

**Natural Sciences and Mathematics** . . . . . 23 semester hours (minimum)
Required:
General chemistry
Human anatomy and physiology
Microbiology or Bacteriology

Balance of credit can be taken in any of the following fields: chemistry, biology, anatomy, physiology, microbiology or mathematics.

**Electives** . . . . . To meet minimum total of hours

Total (Lower Division) . . . . . 60 semester hours (not including P. E.)

**Curriculum at the University of Virginia**

| *Summer Session* | Sem. Hrs. |
|---|---|
| Nursing I: Introduction to Health Care and Nursing | 6 |

The first course in the nursing major, Introduction to Health Care and Nursing, is offered in a six-week summer session on the Grounds of the University of Virginia. Students are required to complete all lower division work prerequisite to the nursing major before enrollment in Introduction to Health Care and Nursing.

| *Third Year* | Sem. Hrs. |
|---|---|
| Nursing 51: Dynamics of Human Relations | 2 |
| Nursing 53-55: Nursing Needs of Adults and Children | 10 |
| Nursing 60: Interpersonal Relations in Nursing | 3 |
| Nursing 62-64: Nursing Needs of Adults and Children | 10 |
| Commerce 61: Principles of Organization and Management | 3 |
| Electives (from areas other than Nursing) | 3 |

| *Fourth Year* | Sem. Hrs. |
|---|---|
| Nursing 81: Nursing Needs of Adults with Complex Medical-Surgical Problems | 4 |
| Nursing 83: Nursing Needs of Patients with Emotional Illness | 4 |
| Nursing 85: Nursing Needs of Child-bearing and Child-rearing Families with Complex Problems | 4 |
| Nursing 89: Nursing Needs of the Community | 4 |
| Nursing 91: Leadership in Nursing Practice | 4 |
| Nursing 93: Independent Study | 2 |
| Nursing 95: Nursing Elective | 2 |
| Electives | 6 |
| Total (Upper Division) | 67 |

After successful completion of the program, the student is eligible to write the examination for licensure as a registered professional nurse.

Information concerning tuition, expenses, and terms of payment appears in the School of Nursing catalogue which can be obtained by writing the Director of Admissions, School of Nursing, University of Virginia, McKim Hall, Charlottesville, Virginia 22903.

*Cooperative Programs in Physical Therapy—*

Adviser: Miss Anna Scott Hoye

There is a need for physical therapists (1) in the fields of general medicine, neurology, orthopedics, and surgery; (2) for work with crippled children; and (3) for specialized services in the hospitals of the Army, Navy, and the Veterans Administration.

Mary Washington College offers two courses of study for preparation of students in physical therapy. One provides two or three years of liberal arts work meeting the prerequisites for specialized training at any approved school of physical therapy which offers a two-year program. Upon satisfactory completion of the required work, an undergraduate degree in physical therapy will be awarded by the particular medical school attended.

The second program is one in which a student graduates from Mary Washington College with a major in some appropriate field. Post-baccalaureate work may then be taken at an approved school of physical therapy with the possibility of earning graduate credit to be applied toward a master's degree. All courses of study should be worked out in detail with the help of the curriculum adviser.

A suggested outline for the two years of study follows. Substitution may be made with approval of the curriculum adviser. It is recommended that as soon as possible, certainly before the end of the freshman year, the student should make known to the adviser the school he wishes to apply to for professional training, in order that specific prerequisites may be met.

A list of physical therapy schools approved by the Council on Medical Education and Hospitals of the American Medical Association, together with their particular prerequisites for entrance, is made available to each student in the adviser's office.

**Suggested curriculum at Mary Washington College**

*First Year*

| | Semester-hours |
|---|---|
| English composition and literature courses | 6 |
| Mathematics 111, 121 or 131 | 6 |
| Biology 121,122 | 4-8 |
| Chemistry 111,112 | 8 |
| Physical education | 2 |
| Total | 30 |

*Second Year*

| | |
|---|---|
| English: sophomore literature course | 6 |
| Biology 382-383 | 8 |
| Psychology 201-202, General Psychology | 6 |
| Physics 101-102 (non-scientific) | 8 |
| Elective: Social science | 6 |
| Physical education | 2 |
| Total | 36 |

Orientation without credit is offered every year in the form of a professional Physical Therapy Club. All interested students may join and participate in the club's varied activities such as visits to nearby institutions, indoctrination lectures, moving pictures, etc.

Directions for admission to Mary Washington College are to be found in the Admissions Catalogue. Application to the professional school is made at the end of the school year which precedes the last year of study at Mary Washington College.

*Cooperative Program in Speech Pathology and Audiology*—Adviser: Mr. Albert G. Duke

There is an increasing demand for teachers and clinical workers with special training in speech, including speech pathology and audiology. A cooperative program has been established with the University of Virginia to provide a pre-professional program in speech pathology and audiology.

This program provides that the first three years of work (i.e., a minimum of 92 semester hours) be taken at Mary Washington College and that the fourth year be spent in residence at the University of Virginia in Charlottesville. Students transferring to Mary Washington College are required to spend two years in residence prior to their senior year at the University. Upon completion of the program at the University of Virginia the student receives a Bachelor of Arts degree from Mary Washington College. Certificates of Clinical Competence in Speech Pathology or Audiology awarded by the American Speech and Hearing Association are obtainable with further specialization at the Master's degree level.

Students interested in the program should apply to the Director of Admissions, Mary Washington College.

A normal course of study for the cooperative program in speech pathology and audiology is as follows:

In their freshman and sophomore years students must complete the basic degree requirements of the College. In doing so, they should select courses in mathematics, American history, health, and psychology to satisfy, in part, the education requirements for speech pathologists in the Commonwealth of Virginia. Electives should be selected in consultation with the program adviser to insure diversification and to incorporate further education requirements. Once these requirements are taken care of, preference in electives should be given to courses in speech, psychology, and linguistics.

Speech 361, Voice Science, and Speech 362, Phonetics, are offered in the same alternate years. Students, therefore, should take these courses in either the sophomore or the junior year, depending upon when they are given. A second six hours in speech should be taken in courses available in the other year.

**Curriculum at the University of Virginia**

*Fourth Year* Semester-hours

Speech Education 106: The Bases of Speech . . . . . 3
Speech Education 108: Experimental Phonetics . . . 3
Speech Education 121: Rehabilitation Programs in Speech and Hearing . . . . . 3
Speech Education 131: Principles of Speech Correction . . . . . 3
Speech Education 132: Principles of Speech Pathology . . . . . 3
Speech Education 133: Diagnostic Techniques in Speech Pathology . . . . . 3
Speech Education 140: Articulation Disorders . . . . 3
Speech Education 151: Introduction to Audiology . . . . . 3
Electives . . . . . 6
Total . . . . . 30

**Observation and Practice Facilities.** As a part of the academic program in speech pathology and audiology, observation and supervised practice are required. Opportunities for such are provided by the Speech and Hearing Center and also through established working relationships with such facilities as the Charlottesville City and Albemarle County Public Schools, certain departments of the University of Virginia Medical Center, the Children's Rehabilitation Center, the Virginia School for the Deaf and the Blind, the Woodrow Wilson Rehabilitation Center for adults, the Veterans Administration Hospital, and the Mobile Clinic of the Virginia Hearing and Speech Foundation, Inc.

Course offerings are divided into lower level (100/200) and upper level (300/400). Courses numbered 100 through 199 are usually regarded as elementary or introductory courses in a particular subject field. Courses numbered 200 through 289 usually assume some prior study in the subject, either in high school or college. Courses numbered 300 through 489 are advanced courses and usually assume previous course work or special competence in the field. All course credits are expressed in semester hours. A course listed as "six credits" is a continuous course for the session of nine months and carries a credit of six semester hours. Courses listed as "three credits each semester" may be taken for one or both semesters.

**Continuous courses, of which the student must complete both semesters to receive any credit, are indicated by hyphens between the numbers, such as Biology 382-383. French 101-102.**

**Courses in which the first semester is not a prerequisite for semesters are indicated by commas between the numbers, such as Art 305, 306.**

**Courses in which the first semester is not prerequisite for the second are indicated by a plus following the number, such as English 371, 372+.**

The letter in parentheses after the course number and title indicates how the course may be scored among the basic requirements:

(L) =Literature, (H) = Humanities, (S) = Social Science, (N/M) = Natural Science and Mathematics, and (D/E) =

Diversification or Elective and may also be part of an appropriate major.

## AMERICAN STUDIES/ *Associate Professor* Glen R. Thomas, Adviser

The following four seminars are designed specifically for American Studies majors, and must be taken in their junior and senior years. These seminars will be open to students by permission of the instructor.

**American Studies Seminar 301**—*Issues in Contemporary American Culture.* (S)

This seminar is subject to some shift in emphasis from year to year. Generally, however, the course content will center around minority groups (Indians, mountaineers, Mexican-American, migrant workers and sharecroppers), the youth culture, and selected current issues in American social philosophy. Readings will emphasize Marcuse, Roszak, Goodman and Reich. Three credits.

**American Studies Seminar 302**—*The Fine Arts in America.* (H)

This seminar in its three parts includes a consideration of music from McDowell to the present, with emphasis upon Ives, Griffes, Copland, Sessions and Carter; an historical introduction to modern dance, and a study of selected dramatists of the 20th century, with emphasis upon the contemporary stage. Consideration is given both to aesthetics and to the social and historical context of American fine arts. Three credits.

**American Studies Seminar 401**—*Mass Media and American Culture.* (S)

An examination of the functions and control of mass media (particularly the broadcast media) and their general role in reflecting and shaping American social values. The media are studied against a background of social thought, including Marcuse, Skinner and McLuhan. Three credits.

**American Studies Seminar 402**—*The Impact of Darwin and Freud on American Thought.* (S)

A study of the impact of evolution and psychoanalytic theory upon American thought, with special attention to literature, religion, sociology, and psychology. Three credits.

ART/ *Professor* Pauline G. King, Chairman; *Professor* Binford;* *Visiting Artist* Isenburger;*** *Associate Professors* Hara, Herban, Muick, Oliver; *Assistant Professors* Hochstetler, Imai, Lamph,** North.

Two major programs are offered leading to the B.A. Degree: one in the history of art, the other in studio art.

Any course in the department may be elected by non-majors who have satisfied the prerequisites. Courses in either the history of art or studio art may be taken to satisfy the humanities requirements for the B.A. Degree. Art 114, 115 or the equivalents are prerequisite for all other art history courses. Art 101 and 102 or their equivalents are prerequisite for all 200 level courses in studio art except Pottery 251, 252 which incorporates basic design principles. Specific course prerequisites should guide the student in making choices on any level.

**History of Art Major:**

The student is required to take 30 credits beyond the introductory courses, Art 114, 115. Therefore, courses valid for the major are those above the 100 level. In order to be considered a prospective major in art history, the candidate must have completed at least six semester hours in introductory art history courses, here or elsewhere. The distribution of courses in the major must include at least three semester hours credit in each of the following areas: Ancient, Medieval, Renaissance, Baroque-Rococo, and Modern (including American) Art; at least three semester hours credit are to be taken in a research oriented course, such as Art 470; 483-484; or 490,491.

Students planning to do graduate work in art history are advised to take a second foreign language among their electives. A reading knowledge of both French and German is required for most graduate work in art history.

In order to assure a well-rounded, liberal arts program, it is recommended that while the student is reviewing courses

* First semester, 1972-73

**On leave, first semester, 1972-73

***Second semester, 1972-73

to fulfill the degree requirements for diversification and electives, in consultation with an adviser, he consider the following suggestions:

Foreign language (French or German)

History courses paralleling art history period courses

Studio art courses

Selections from the following, listed alphabetically: anthropology, archaeology, dramatic arts (211, 212; 361, 362), upper level courses in the literature of any language, music (history and literature), mythology, philosophy, and religion.

**Studio Art Major:**

The student is required to take 24 credits in studio art more advanced than Art 101 and 102, and 12 credits in art history. Art 101 and 102, or their equivalents, are prerequisite for any 200 level course in studio art except Pottery 251, 252.

A summary of the required sequence of courses is as follows: 9-12 credits are to be selected from courses numbered on the 200 level and at least 12 credits are to be selected from courses numbered on the 300-400 level.

Students expecting to teach art should see their adviser toward the end of the sophomore year, to be sure that state certification requirements may be met by scheduling the necessary departmental courses. In addition, Education 342 (described under the Education Department's course listings) is required in the junior or senior year for the prospective art teacher; it must be taken before the student does student teaching.

French, German, and Italian are the languages most useful for the studio art major, insofar as European travel or the ability to read the historical literature of the field are concerned.

**Studio Art Courses**

Art 101—*Two-dimensional Design.* (H)
Experiments in the inventive use of materials, tools, and elements of design (e.g. line, shape, texture, value, color, etc.) as related to a two-dimensional surface. The use of figurative and non-figurative imagery in basic non-verbal communication. Given each semester. Two double periods per week. Three credits.

**Art 102**—*Three-dimensional Design.* (H)
A development of three-dimensional structures, emphasizing the construction of visual order in space. Exercises and experiences will be provided, showing the relationships between two-dimensional and three-dimensional design, through the use of such elements of design as texture, plane relationships, line and color, unity and variety of masses, etc. Both figurative and non-figurative subject-matter will be utilized. Two double periods per week. Three credits.

**Art 211, 212+**—*Life Drawing.* (H)
Prerequisite: Art 101, 102 or the equivalent. A variety of approaches to the drawing of organic forms in figurative and non-figurative systems. Study of the human body from the live model in a progression from objective interpretation to subjective expression. Six hours per week. Three credits each semester.

**Art 231, 232+**—*Beginning Sculpture.* (H)
Experience in principles of form and design. The study and construction of volume and mass through the use of plastic and carving media. Three double periods per week. Three credits each semester.

**Art 241, 242**—*Drawing and Composition.* (H)
Prerequisite: Art 101, 102 or the equivalent. Drawing from life. Abstract and figurative composition in various media. Three double periods per week. Three credits each semester.

**Art 251, 252+**—*Pottery and Hand-Building.* (H)
A concentrated study of the basic steps and forms of the pottery wheel; exploration of form and texture through various hand-building processes. Three double periods per week. Three credits each semester.

**Art 321-322**—*Printmaking.* (H)
Prerequisite: Art 101, 102 and one year of drawing or its equivalent. An introduction to concepts, materials and methods used in printmaking: etching, engraving, aquatint and other intaglio techniques; collagraphy; lithography; relief processes; and serigraphy. Six hours per week. Three credits per semester.

**Art 341, 342+**—*Intermediate Sculpture.* (H)
Prerequisite: Art 231, 232+ or its equivalent. Representational and non-representational projects in a variety of media. Three double periods per week. Three credits each semester.

**Art 351, 352**—*Oil Painting.* (H)
Prerequisite: Art 241, 242 or its equivalent or examination. Still life and landscape painting. Three double periods per week. Three credits each semester.

Art 381, 382– *Pottery and Hand-Building.* (H)
Prerequisite: Art 251, 252+ or its equivalent. A more advanced study of wheel thrown forms; further exploration of hand-building processes; ceramic sculpture, and glaze experiments and firing. Three double periods per week. Three credits each semester.

Art 401, 402+–*Figure Painting.* (H)
Prerequisite: Art 351, 352 or its equivalent. Nude and costumed figure painting; portraiture. Three double periods per week. Three credits each semester.

Art 495, 496, 497, 498–*Individual Study in Studio Art.* (H)
Independent work under the supervision of a member of the studio art faculty. Three double periods per week. Three credits each semester.

See also Education 342–Seminar in Art Education (listed under the Education Department).

See also Education 440–Supervised Teaching.

**History of Art Courses**

Art 114, 115–*Introduction to the History of Art.* (H)
A selective survey of Western art, treated from a critical, aesthetic, and historical standpoint. Concentration on architecture, painting, and sculpture. Art 114 ends about 1400 and is prerequisite for Art 115, carrying the survey to the present. Three hours per week. Three credits each semester.

Art 310–*Art and Archaeology of the Ancient Near East.* (H)
Egypt, the Near East, and the Aegean world with emphasis on cultural exchange during the Bronze Age. Three hours per week. Three credits.

Art 312–*Carolingian and Romanesque Art.* (H)
Sources and formulation of Western European art from the time of Charlemagne through the subsequent development of Romanesque art and architecture to 1150. Three periods per week. Three credits.

Art 313–*Gothic Art and Architecture.* (H)
Emphasis on the emergence of the Gothic style in mid-twelfth century Europe, stressing its structural and aesthetic development in architecture, painting, and sculpture, primarily in France and Italy to 1400. Three periods per week. Three credits.

Art 315–*Seventeenth Century Art.* (H)
Emphasis on the Carracci and Caravaggio; Bernini and Borromini; Rubens, Rembrandt, and the Dutch landscapists, Poussin and Claude;

palace and garden design; Velasquez; the Baroque ceiling. Concurrent emphasis on the Baroque as it evolves from Mannerism, and changes in subject matter and technique. Three hours per week. Three credits.

**Art 316**—*Eighteenth Century Art.* (H)
Emphasis on the arts of France; concentration on the Rococo and its influences on Continental and British art, and its evolution into the Neo-Classic style. Three periods per week. Three credits.

**Art 317**—*Northern Art.* (H)
Painting and graphics of the Lowlands, France and Germany from the late medieval period through the early sixteenth century. Three periods per week. Three credits.

**Art 318**—*Italian Renaissance Painting.* (H)
Painting of the Italian Renaissance and its origins in the social and intellectual climate. Three hours per week. Three credits.

**Art 319**—*Italian Renaissance Architecture and Sculpture.* (H)
A treatment of the historic, aesthetic, and theoretical bases for these arts, in the fifteenth and sixteenth centuries. Landscape design and city planning as settings will be dealt with where relevant. Three periods per week. Three credits.

**Art 335**—*The Art of Primitive Peoples.* (H)
An introduction to the arts of the three major art-producing areas of the primitive world: Negro Africa, Oceania, and North America, but with the emphasis upon Africa. While examples of architecture and painting are discussed, sculpture is stressed. Three periods per week. Three credits.

**Art 391**—*Georgian Art.* (H)
A study of British art and aesthetics, largely of the eighteenth century, stressing not only portraiture and Palladianism, but the rise of exoticism and nostalgia which show Britain to be the cradle of Romanticism. Three periods per week. Three credits.

**Art 411**—*Greek Art of the Archaic and Classical Periods.* (H)
Hellenic art from the Early Iron Age, through the Geometric, Orientalizing, Archaic, and Classical periods, and through the mid-fourth century B.C. Three periods per week. Three credits.

**Art 412**—*Hellenistic and Roman Art.* (H)
Greek art from the time of Lysippus and Alexander, the division of his Empire into Hellenistic kingdoms and the emergence of various artistic centers in the ancient world. Roman art to the end of the Imperial period and the development of the native Italic tradition as affected by assimilations of Greek influence. Three periods per week. Three credits.

**Art 451**—*Nineteenth Century Art.* (H)
Emphasis on French painting and sculpture with some aspects of these arts in other European countries included. The course covers the movements of Classicism, Romanticism, Realism, Impressionism and Post-Impressionism. Three periods per week. Three credits.

**Art 452**—*Twentieth Century Art.* (H)
A survey of the painting and sculpture of Europe and the United States. Three hours per week. Three credits.

**Art 453**—*Modern Architecture.* (H)
A study of the outstanding changes in form, style, and technology, with reference to their historical sources and to the individuals who have made lasting contributions. Three credits.

**Art 455**—*American Art.* (H)
Survey of American painting and sculpture with emphasis on the nineteenth and twentieth centuries. Three credits.

**Art 470**—*Special Studies in Art History.* (H)
Open to all art history majors and otherwise qualified students of junior and senior status who desire a special course in an area of art history previously selected by the department after consultation with the students. The emphasis will be on specific problems or limited periods in art history. Three hours per week. Three credits.

**Art 483-484**—*Connoisseurship, Research and Gallery Course.* (H)
Prerequisite: permission of the instructor. The course provides the opportunity for studying the theoretical and practical aspects of connoisseurship, research and exhibition of works of art, through lectures, field trips, the writing of exhibition catalogs and through direct involvement with the College exhibition program. While some professional training is involved, the goal of the course is to provide opportunity for research on actual art objects.

**Art 490, 491**—*Independent Study.*
Individual study under the direction of a member of the art history staff. Three credits each semester. By permission of the department, on the basis of a presentation by the student of his problem, and a description of the method of approach, accompanied by an indication of the part to be played by the art history staff member.

## ASIAN STUDIES/ *Professor* James H. Croushore, Adviser

The Asian Studies core course (Asian Studies I-IV) should be taken by majors in Asian Studies as early as possible. Its four components, however, are open singly or in their entirety to all interested students as well.

**Asian Studies I**—*Introduction to Asian Cultures.* (H)
The major languages of the region are presented with emphasis on their written, phonetic, and grammatic systems in order to obtain an insight into the thinking and behavioral patterns of the people speaking these languages. Three credits.

**Asian Studies IIa**—See Religion 281. (H)

**Asian Studies IIb**—See Religion 282. (H)

**Asian Studies III**—*The Peoplehood of Orientals.* (H)
Various tribes, ethnic groups and nationalities in the region are studied as to their customary and ethical behavior, their awareness of individual and social values, their outlook on life and interpeople relations. Three credits.

**Asian Studies IV**—*Values and Ideologies in the Cultures of the Orient.* (H)
A determination of the origin, growth, and realization of the ideals of Eastern peoples and their phenomenological expressions in literature as well as the static and performing arts. Three credits.

The following courses offered by different departments are within the scope of Asian Studies.

**History of Art 310**—*Art and Archaeology of the Ancient Near East.* Three credits.

**Dance 353**—*History of the Dance of the East.* Three credits.

**Dramatic Arts 371**—*Oriental Theater. Three credits.*

**Political Science 322**—*Problems in International Politics.* Three credits.

**Political Science 354**—*Politics of South and Southeast Asia.* Three credits.

**Political Science 355**—*Politics of North Africa and the Middle East.* Three credits.

**Geography 331**—*Geography of East Asia.* Three credits.

**Geography 332**—*Geography of West Asia.* Three credits.

**Geography 462**—*Political Geography (Geopolitics).* Three credits.

**History 341, 342**—*East Asian Civilization.* Three credits each semester.

**History 343**—*Modern China and Japan.* Three credits.

**History 344**—*Modern Southeast Asia.* Three credits.

**History 497, 498**—*Special Studies in Far Eastern History.* Three credits each semester.

**Japanese 151-152**—*Intermediate Japanese.* Six credits.

**Philosophy 421**—*Symbolism.* Three credits.

**Religion 281**—*Asian Religions I: India.* Three credits

**Religion 282**—*Asian Religions II: China and Japan.* Three credits

## ASTRONOMY/ *Associate Professor* Nikolic.

**Astronomy 361, 362**—*Elementary Astronomy.* (N/M)

An historical and descriptive survey of the physical universe. Three periods a week. Three credits each semester. Astronomy 361 is a prerequisite to Astronomy 362.

## BIOLOGY/ *Professor* Rose Mary Johnson, Chairman; *Professors* Hoye, Parrish, W.C. Pinschmidt, Jr.; *Associate Professors* Friedman, T. L. Johnson; *Assistant Professors* Fuller, M.W. Pinschmidt, Southworth;* *Instructor* Bass.**

The student who wishes to major in biology must complete 24 hours of biology above the introductory level and 12 hours in a related field. Upper level courses should

*First semester, 1972-73

**On Leave of Absence, 1972-73, 1973-74

include Biology 231 - General Botany or Biology 321 - Zoology, Biology 441 - Genetics, Biology 442 - Evolution, and one semester of Biology 450 - Seminars.

Biology 121, 122 should be taken by prospective biology majors as a prerequisite to upper-level courses. Biology 121 or General Science 101-102 is the only prerequisite for Biology 202, Biology 251, Biology 252, Biology 271, Biology 342, and Biology 382-383. Chemistry 111-112, General Chemistry, is a prerequisite for Biology 360 and Biology 361. Biology 441 and 442 are not open to non-majors.

It is possible for the biology major to select from three areas of emphasis among the advanced course offerings: environmental biology, human biology, and physiology. Suggested related fields are chemistry, physics, mathematics, sociology, geology, geography, anthropology or psychology. Calculus, general physics and biochemistry are recommended for the student who desires graduate studies in biology. The major program should be arranged in consultation with a member of the biology faculty.

**Biology 121, 122**—*Biological Concepts.* (N/M)
General biological principles as they apply to plants and animals. One three-hour laboratory and three lectures per week. Four credits each semester.

**Biology 202**—*Heredity and Evolution.* (N/M)
Principles of heredity and their application to evolutionary theory. Primarily designed for non-majors. Three lectures and one laboratory per week. Three credits.

**Biology 221**—*Chordate Anatomy.* (N/M)
A comparative study of the major systems of representative chordates. Two single and two double periods per week. Four credits.

**Biology 222**—*Chordate Embryology.* (N/M)
The development of representative chordates. Two single and two double periods per week. Four credits.

**Biology 231**—*Botany.* (N/M)
A survey of the plant kingdom with emphasis on morphogenetic description, life histories and evolutionary relationships. Two single and two double periods per week. Four credits.

**Biology 251**—*The Social Implications of Biology.* (D/E)
A discussion of classic and contemporary biological research and

the subsequent social implications. One single period per week. One credit.

**Biology 252**—*General Ecology.* (N/M)
A study of the relationships of plants and animals to their environment and the cyclic phenomena necessary to maintain a balance in nature. Three single periods per week. Three credits.

**Biology 271**—*Microbiology.* (N/M)
A survey of micro-organisms with emphasis on bacteria, designed to introduce the student to the morphology, physiology, nutrition and ecology of micro-organisms. Three single lecture periods and two laboratories per week. Four credits.

**Biology 311**—*Plant Ecology.* (N/M)
A study of the basic ecological principles as applied to plants including major biomes, plant succession, competition and micro-macro-environments. Two single and two double periods per week. Four credits.

**Biology 312**—*Plant Physiology.* (N/M)
Experimental and theoretical treatment of the functional mechanisms in plants. Two single and two double periods per week. Four credits.

**Biology 321**—*Invertebrate Zoology.* (N/M)
A survey of the invertebrate phyla with emphasis on structural characteristics, life cycles, and evolutionary relationships. Two single and two double periods per week. Four credits.

**Biology 322**—*Animal Ecology.* (N/M)
The relationships between animals and their environment. Field trips and laboratory studies include observations of marine, fresh-water, and terrestrial animals in their natural habitats. Two single periods and six hours of laboratory or field work per week. Four credits.

**Biology 331**—*Histology and Tissue Culture.* (N/M)
The preparation and study of animal tissues. Two single and two double periods per week. Four credits.

**Biology 332**—*Chordate Embryology.* (N/M)
The development of representative chordates. Two single and two double periods per week. Four credits.

**Biology 342**—*Human Genetics.* (N/M)
Application to the human of the principles of heredity. Three single lecture periods per week and one two-hour laboratory. Four credits

**Biology 351**—*Laboratory Techniques.* (N/M)
A course designed to introduce biology majors to instruments and equipment used in biological experimentation. The scientific method and experimental design will be discussed. One single and two double periods per week. Three credits.

**Biology 352**—*Marine Biology*
Prerequisite: At least a year of college biology. The study of marine organisms in their natural habitats, with particular stress on their ecology, phylogeny and behavior. Frequent field collections will include seining, dredging and trawling in the bay and its tributaries. Several more extensive field trips will include collecting in the open ocean and visits to various marine research facilities on the bay. Individual student interests and research projects will be an integral part of the course. The last two weeks will be devoted to an independent research project chosen by the student. First six weeks of summer session. Six credits.

**Biology 360**—*Cellular Physiology.* (N/M)
Principles of general and cellular physiology. Prerequisite: Chemistry 111-112, General Chemistry. Two single and two double periods per week. Four credits.

**Biology 361**—*Comparative Physiology.* (N/M)
A comparative study of physiological systems in animals. Prerequisite: Chemistry 111-112, General Chemistry. One three-hour laboratory and three single periods per week. Four credits.

**Biology 372**—*Parasitology.* (N/M)
The structure, life cycles, and host relationships of invertebrate parasitic forms. Two single and two double periods per week. Four credits.

**Biology 382-383**—*Human Anatomy and Physiology.* (N/M)
A course designed for students in the cooperative programs in nursing and medical technology. The structure and function of the human organism. Prerequisite: Chemistry 111-112, General Chemistry. Three single periods and one three-hour laboratory per week. Eight credits.

**Biology 441**—*Genetics.* (N/M)
Mendelian inheritance and modern concepts of gene structure and function. Three single and two double periods per week. Five credits.

**Biology 442**—*Evolution.* M)
The history and development of modern evolutionary thought. Three single periods per week. Three credits.

**Biology 450**—*Seminar.* (N/M)
Selected readings, reports and group discussions on topics of historic and current biological interest. Open to majors each semester of the junior and senior year. One credit.

**Biology 475**—*Readings in the Biological Sciences.* (N/M)
Independent readings in current or classical biological literature in a field selected by the student. The student is guided by and responsible to a member of the staff. Open to junior and senior majors with permission of the staff. Two credits.

**Biology 476**—*Special Problems in Biology.* (N/M)
A program of independent laboratory or field investigation for which the student has reviewed the literature and organized his approach in the prerequisite course (Biology 475). The student is guided by and responsible to a member of the staff. Open to junior and senior majors with permission of the staff. Three credits.

**Biology 490, 491**—*Research.* (N/M)
Four credits per semester. (See statement on Honors).

## Honors in Biology

1. To be eligible a student must have a 3.25 grade point average in biology and a 3.0 over-all average for five semesters. Such a qualified student, in order to become an applicant, must have the approval of the Department of Biology by the end of the first semester of his junior year.

2. Biology 475, Readings in Biology, or its equivalent (taken in the second semester of the junior year) will be a prerequisite for Honors work.

3. The approved student must register for Biology 490, 491 · Research. A grade of C or less will be given in this course if the Honors Committee decides that the work is not worthy of Honors.

4. The chairman of the department will select an Honors Committee composed of three staff members, one of whom will be the student's adviser for the Honors project. The adviser will guide the student in his study and determine the most suitable combination of laboratory work and reading for optimum progress toward the student's goal. This adviser will also direct the writing of a thesis and supervise the oral examination.

**CHEMISTRY**/ *Associate Professor* Bernard L. Mahoney, Jr., Chairman; *Professors* Cover, Insley, Wishner; *Assistant Professors* Crissman, George; *Assistant Instructor* Sotzing.

A student who intends to major in chemistry should arrange a four-year program in consultation with a member of the chemistry faculty. Chemistry 211, 212, 251, 252, 393, 394, 451 and 452 are required for a major program in chemistry. Chemistry 111-112 is prerequisite for all other chemistry courses. Mathematics 111, 121 is recommended for the freshman year. Mathematics 231 is recommended. Physics 151-152 and Mathematics 221 should be taken before the junior year. French, German or Russian are recommended to fulfill the foreign language requirement.

**Chemistry 111, 112**—*General Chemistry.* (N/M)
A course designed to introduce the student to the fundamental principles of chemistry and the more important elements and their compounds. One three-hour and three single periods a week. Four credits each semester.

**Chemistry 211, 212**—*Organic Chemistry.* (N/M)
A study of the chemistry of carbon compounds on the basis of structural theory. One three-hour and three single periods a week. Four credits each semester.

**Chemistry 251**—*Qualitative Analysis and Chemical Equilibrium.*
Prerequisite: Mathematics 111 or equivalent. An elaboration of chemical principles with particular emphasis on equilibria. The accompanying laboratory involves systematic identification of inorganic compounds using semi-micro techniques. Three single and one three hour period per week. First semester. Four credits.

**Chemistry 252**—*Quantitative Analysis.* (N/M)
Prerequisite: Mathematics 111 or equivalent. A study of the theory and techniques of volumetric, gravimetric, and introductory instrumental methods of analysis. Two single and two three hour periods per week. Second semester. Four credits.

**Chemistry 317, 318**—*Biochemistry.* (N/M)
Prerequisite: Chemistry 212. The application of chemical principles to the study of living cells and organisms. The laboratory deals with selected research techniques. Three lectures and three laboratory hours a week. Four credits each semester.

**Chemistry 333**—*Advanced Analytical Chemistry* (N/M)
Prerequisite: Chemistry 252. A study of advanced volumetric, gravimetric, and electrochemical methods of analysis. Two single and two four-hour periods per week. First semester. Four credits.

**Chemistry 343**—*Inorganic Chemistry.* (N/M)
The study of modern theories of atomic structure and chemical bonding and their application to molecular structure. Three single periods per week. Three credits.

**Chemistry 393, 394**—*Physical Chemistry.* (N/M)
Prerequisites: Physics 151, 152, Mathematics 221. A study of the quantum mechanical, spectroscopic, thermodynamic and kinetic properties of chemical systems. Three single periods per week. Three credits per semester.

**Chemistry 395, 396**—*Physical Chemistry Laboratory.* (N/M)
Must be accompanied by Chemistry 393, 394. Prerequisite: Chemistry 252. The laboratory will deal with physiochemical investigations of spectroscopic, thermodynamic, and kinetic properties of chemical systems using statistical and computer methods for data analysis. One single and one three-hour period per week. Two credits per semester.

**Chemistry 411**—*Advanced Organic Chemistry.* (N/M)
Prerequisite: Chemistry 212. The study of organic reaction mechanisms and the relation of molecular structure to physical and chemical properties. Three single periods per week. First semester. Three credits.

**Chemistry 423, 424**—*Experimental Methods In Chemistry.* (N/M)
Prerequisites: Chemistry 212, 252. A study of the spectroscopic, chromatographic, and wet chemical functional group methods and techniques used in characterizing organic and inorganic compounds. Two single and two three-hour periods per week. Four credits per semester.

**Chemistry 451, 452+**—*Seminar.* (N/M)
Student preparation of reports on selected topics in chemistry for oral presentation and discussion. One hour a week. Required of all majors in senior year. Others admitted by permission of the chemistry department. One credit each semester.

**Chemistry 455, 456**—*Special Problems in Chemistry.* (N/M)
A program of independent investigation under the direction of a member of the staff. Open to qualified students with the permission of the department. From one to four credits per semester depending upon the quantity of the work planned and completed.

**Chemistry 491**—*Advanced Topics in Chemistry.* (N/M)
Prerequisite: Permission of the instructor. An advanced treatment of selected topics in chemistry. Three single periods per week. Three credits per semester.

**Chemistry 495-496**—*Honors in Chemistry.* (N/M)
Prerequisites: A 3.0 grade point average overall and 3.25 in major courses. An honors program in chemistry consists of an independent research project which culminates in the writing and defense of an honors thesis. Eight credit hours.

## CLASSICS/ *Professor* Laura V. Sumner, Chairman; *Assistant Professors* Hatch, Jones.

The Department of Classics offers a major program in Latin. Sequential courses are also available in ancient Greek. The interdepartmental major in classical civilization is usually directed by a member of the department.

Major programs in Latin are worked out by the student and the faculty adviser. A student is expected to take a minimum of 25 hours in Latin plus courses in classical civilization or related areas of specialization up to a total of 36 to 40 hours. All majors must include in their program Latin 351, Advanced Latin Grammar, and at least one course in Roman civilization or culture. It is also recommended that students who plan to attend graduate school take courses in ancient Greek, preferably the two year sequence. It is possible for any student to complete a major program in Latin regardless of high school preparation in that language. Suggested majors for students with no, some, or complete high school training in the subject are available from the department. The full major program is designed to acquaint the student with an understanding of the Latin language, its development and the history of its literature. Since the language is so closely allied to the civilization of the people who spoke it and since both the language and the civilization are not a part of the contemporary scene, the courses in civilization are designed to acquaint the major with facets of Roman life beyond the mere translation and interpretation of the written text.

## Greek

**Greek 131-132**—*Elementary Greek.* (D/E)
An introduction to the language of ancient Greece. Grammar and composition are stressed, leading towards the translation of the literature. The Attic dialect is regularly emphasized in this elementary course. Three periods a week. Six credits.

**Greek 133, 134**—*Intermediate Greek.* (D/E)
Prerequisite: Greek 131-132 or two years of high school credit. Review of grammar as necessary. Reading of Plato, *Apology,* plus selections from other dialogues and from other authors. Three periods a week. Three credits each semester.

**Greek 291, 292**—*Individual study in ancient Greek.* (D/E)
Prerequisite: Greek 133, 134 or its equivalent. Emphasis will be on the reading and interpretation of an individual author or a genre of Greek literature. Actual course content will be determined by the instructor and the student or students involved in any given semester. Three credits each semester.

## Latin

**Latin 111-112**—*Elementary Latin.* (D/E)
Essentials of Latin grammar and composition; introduction to the translation of Latin literature, with special selections from Caesar and other writers. Three periods a week. Six credits.

**Latin 113, 114**—*Intermediate Latin.* (D/E)
Prerequisite: Latin 111-112 or the equivalent of two years of high school Latin. Continued study of Latin grammar and composition; readings from Cicero, Pliny and other writers in the first semester. In the second, an introduction to Latin poetry; extensive reading from *Aeneid,* Books I-VI. Three periods a week. Three credits each semester.

**Latin 209**—*Livy and Vergil.* (L)
Prerequisite: Latin 113, 114 or four units of high school Latin. Students who have three units of high school Latin should consult the chairman of the department before registering for any Latin course. Livy Book I and Vergil Book VIII. How the sophisticated Romans of the Augustan Age viewed the tales of the origins of the city. Three periods a week. Three credits.

**Latin 210**—*Lyric Poetry.* (L)
Prerequisite: Latin 113, 114 or four units of high school Latin. Students who have three units of high school Latin should consult chairman of the department before registering for any Latin course. An introduction to the forms of lyric poetry in Latin. Extensive reading in Catullus and Horace. Three periods a week. Three credits.

**Latin 211, 212**—*Survey of Latin Literature.* (L)
Prerequisite: Latin 113, 114 or four units of high school Latin. Students who have three units of high school Latin should consult the chairman of the department before registering for any Latin course. An historical survey of the development of Latin literature from earliest inscriptions to the end of pagan Roman writing, with reading from representative works in all fields of literature. All potential majors are urged to take this course. Three periods a week. Three credits each semester.

**Latin 310**—*Medieval Latin.* (L)
Three periods a week. Three credits. (Offered on demand.)

**Latin 311**—*Roman Drama.* (L)
Three periods a week. Three credits.

**Latin 312**—*Roman Historical Writing.* (L)
Three periods a week. Three credits.

**Latin 313**—*Roman Satire.* (L)
Three periods a week. Three credits.

**Latin 314**—*Epic Poetry.* (L)
Three periods a week. Three credits.

**Latin 351**—*Advanced Latin Grammar.* (D/E)
Required for all majors. One period a week. One credit.

**Latin 352**—*Advanced Latin Composition.* (D/E)
One period a week. One credit.

**Latin 411**—*The Life and Times of Julius Caesar.* (L)
An in-depth study of Roman life and letters from 100-40 B.C. Readings from contemporary sources, including Cicero, Caesar, Sallust, Catullus, and others. Three periods a week. Three credits.

**Latin 451, 452**—*Special Studies in Latin Literature.* (L)
These courses offer an opportunity for reading and study of an individual Latin author, of a genre of Latin literature, or of an area of Roman civilization.
The subject matter is worked out in advance by the faculty member in charge for a given semester in consultation with the students. Open to junior and senior major students (or to other qualified students with permission of the instructor). Three credits each semester.

Latin 491, 492—*Independent Study.* (L)

Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. By permission of the department.

## Classical Civilization*

Classics 201—*Classical Motifs in Literature.* (L)

No prerequisite. A study of the hero's journey and related themes of Homer's *Iliad* and *Odyssey,* Vergil's *Aeneid,* Tennyson's *Idylls of the King,* and J.R.R. Tolkien's *Lord of the Rings.* Three periods a week. Three credits.

Classics 301—*Mythology.* (H)

No prerequisite. A study of the principal myths in classical writers with emphasis on their influence on literature and art in contemporary and later periods. Three hours a week. Three credits.

Classics 331, 332—*Greek and Roman Civilization.* (S)

A study of major facets of Greek and Roman culture and their influence on later Western and, more especially, American civilization. Three periods a week. Three credits.

Classics 385—*Greek Art and Archaeology.* (H)

No prerequisite. A survey of archaeology in Greece and a general study of archaeological methods. A study of Aegean and Greek sculpture, painting, architectural, and minor arts from the prehistoric periods through the Hellenistic age. Three periods a week. Three credits.

Classics 386—*Roman Art and Archaeology.* (H)

No prerequisite. A survey of Roman archaeology and a general study of archaeological methods. A study of Italic, Etruscan, and Roman sculpture, painting, architecture, and minor arts from earlier times through the late Roman Empire. Three periods a week. Three credits.

Classics 401, 402—*Special Studies in Classical Archaeology.* (H)

Prerequisites: Classics 385 and 386 and some knowledge of Latin and/or Greek. Work of the first semester will concentrate on modern

* None of the Classical Civilization courses may be considered foreign language courses. They are all conducted in English and *except as noted* do not require the knowledge of either Latin or Greek.

archaeological techniques; preservation and restoration of finds; introduction to Greek and Roman epigraphy. Second semester work will concentrate on Greek and Roman numismatics; special studies in Greek and Roman pottery; the problems of artifacts and minor arts. Permission of the instructor required. Two periods a week. Two credits each semester.

## DRAMATIC ARTS/ *Professor* Roger L. Kenvin, Chairman; *Assistant Professors* DaLuiso, Mallan.

The major program in dramatic arts is designed to offer the creative, thoughtful student a well-balanced program of theater studies that will provide a sound base on which to build further graduate or professional studies or that will be useful simply as an end in itself. Students are encouraged to choose their courses from dramatic literature-criticism-history; acting-directing; technical theater; playwriting; and film. The program is flexible enough to allow for a degree of specialization within the major, but the overall aim is to develop the liberally educated dramatic arts major. Majors are also expected to participate in the productions of the Mary Washington Players by working on different production crews during their college careers.

Thirty-six hours in dramatic arts are required for the major, but as many as 12 hours may be selected from related fields. Related fields of particular interest include speech, dance, art, music, English, and drama-oriented courses in classics and modern foreign languages.

**Dramatic Arts 205**—*Western Drama since Ibsen* (H)
A study of the plays and dramatic styles in the period from Ibsen to the present. Three periods a week. Three credits.

**Dramatic Arts 211, 212+**—*World Drama* (H)
A study of selected plays and theatrical developments in ancient and modern civilizations. Plays are studied for their specific application to the performing art. Three periods a week. Three credits each semester.

**Dramatic Arts/Dance 235-236**—*Movement for the Theater* (H)
Prerequisite: Two credits of modern dance or proficiency. A study of movement as an instrument of communication in dramatic production through creative projects in the theater involving the interrelation

of movement with mime, gesture, space, rhythm, and expression. Two double periods a week. Four credits.

**Dramatic Arts 311, 312+**—*Stagecraft* (H)
Planning, construction, and design of play production, including theater, design, staging, lighting, and sound effects, with practical application in college theater. One single and two double periods a week. Three credits each semester.

**Dramatic Arts 321, 322+**—*Acting.* (H)
Basic techniques of acting with emphasis on the actor's environment and awareness of ensemble playing. Developing a sense; movement techniques; and primary elements of characterization. It is recommended that students have taken Dance 235-236 and Speech 331 or 332 in advance. Two one- and-one half periods a week. Three credits each semester.

**Dramatic Arts 331, 332+**—*Playwriting.* (H)
Practice in writing for the stage. Consideration of character development, plot structure, dialogue, and critical analysis. Three periods a week. Three credits each semester. (At least one semester is offered in alternate years; offered in 1973-74.)

**Dramatic Arts 341**—*History of the Costume.* (H)
History and design of stage costuming. Three periods a week. Three credits. (Offered in alternate years; offered in 1973-74.)

**Dramatic Arts 361, 362+**—*History of the Theater.* (H)
An examination of the physical shapes of theaters, production methods, dramatic conventions, and significant figures in the history of the theater in the Western world from the fifth century B.C. to the twentieth century A.D. Three periods a week. Three credits each semester.

**Dramatic Arts 371**—*Oriental Theater.* (H)
The dramatic literature, theater, and dance of the Orient. Investigatory work in the Chinese, Indian, and Japanese theater and their styles. Three periods each week. Three credits. (Offered in alternate years; offered in 1973-74.)

**Dramatic Arts 381**—*Introduction to Film.* (H)
A survey of major foreign and domestic films before 1945, stressing the development of the art from infancy. Opportunity is given students to produce short films and learn basic techniques of cinematography. Three credits.

**Dramatic Arts 382**—*Film Production.* (H)
A survey of major international films from 1945 to the present, emphasizing film theory and analysis. Opportunity is given students to

produce full dimensioned films and learn advanced cinematic techniques. Three credits.

**Dramatic Arts 431, 432+**—*Directing.* (H)
Work in the technique and practice of directing for the stage. Emphasis is on directing for the professional theater. Three credits each semester.

**Dramatic Arts 441**—*Dramatic Criticism.* (H)
Analysis of dramatic criticism from Aristotle to the present. Application to representative plays. Three periods a week. Three credits. (Offered in alternate years; not offered in 1973-74.)

**Dramatic Arts 443**—*Children's Theater.* (H)
Staging and production of plays for children. Dramatization of original and adapted literature. Creative dramatics. Three periods a week. Three credits. (Offered in alternate years; not offered in 1973-74.)

**Dramatic Arts 451, 452+**—*Special Studies in Dramatic Arts.* (H)
From time to time the department offers courses in special topics of interest to dramatic arts majors and other qualified junior and senior students. The emphasis is either upon intensive reading in drama or creative application of advanced dramatic arts theories. By permission of the department.

**Dramatic Arts 461**—*Seminar in Dramatic Arts.* (H)
Selected readings, oral presentation, and discussion centering around a topic or theme in dramatic arts. (Offered in alternate years; offered in 1973-74.)

**Dramatic Arts 491, 492, 493, 494**—*Independent Study.* (H)
Individual study under the direction of a member of the department. Variable credit per semester. By permission of the department.

**ECONOMICS AND POLITICAL SCIENCE/** *Professor* Lewis P. Fickett, Jr., Chairman; *Professors* Hewetson, R. Sumner; *Associate Professors* Fingerhut, Krickus, Miller; *Assistant Professors* Albertine, Clatanoff, Kramer, Manchester.

## Economics

A major program in economics requires the completion of 36 credit hours. At least 24 of these hours must be in economics courses other than Economics 201-202, Principles of Economics. Of the 24 hours, Economics 321, Money and Banking; Economics 361, Quantitative Economics; Economics 371, Microeconomics; and either Economics 322, a continuation of Money and Banking, or Economics 372, Macroeconomics, are required. The remaining 12 hours may be selected from additional courses in economics, other social sciences, or mathematics as approved.

**Economics 101**—*Elements of Economics.* (S)
A one semester survey of the basic elements of economic theory. Major emphasis will be placed upon the analysis of those theoretical concepts which are directly applicable to current economic and social problems. Three credits.

**Economics 201-202**—*Principles of Economics.* (S)
A study of fundamental principles relating to the production, exchange, distribution, and consumption of goods and services for the satisfaction of human wants, including some consideration of basic economic institutions and systems. Six credits.

**Economics 211, 212**—*Anti-Trust Policy.* (S)
The application of microeconomic analysis to the problems of business organizations. Three credits each semester.

**Economics 221, 222**—*Introductory Accounting.* (S)
A study of the fundamental accounting principles and practices involved in the recording and interpretation of accounting data. Three credits each semester.

**Economics 321, 322**—*Money and Banking.*
Prerequisite: Economics 201-202. Theory of money and credit, banking organization and practices, foreign exchange, international movement of capital, and the financial aspects of business cycles. Three credits each semester.

**Economics 341, 342**—*Government Finance.* (S)
Prerequisite: Economics 201-202. Expenditures and revenues of federal, state, and local governments, the problems of shifting and incidence of taxes; the public debt and fiscal administration. Three credits each semester.

**Economics 351, 352**—*Labor Economics.* (S)
A study of manpower, the labor force, and the organized labor movement. Three credits each semester.

**Economics 361, 362**—*Quantitative Economics.* (S)
An introduction to some of the mathematical and statistical concepts which are necessary in advanced economics and econometrics. Three credits each semester.

**Economics 371**—*Microeconomics.* (S)
Prerequisite: Economics 201-202. Analysis of the firm and the household and their interactions, involving cost, utility, price, wage, interest, rent, and profit theory. Three credits.

**Economics 372**—*Macroeconomics.* (S)
Prerequisite: Economics 201-202. National income accounts and aggregate economic analysis. Three credits.

**Economics 381**—*Urban Economics.* (S)
A survey of the major economic problems facing cities. Topics will include an analysis of the economic rationale of cities, land use, housing, urban transportation, and poverty. Three credits.

**Economics 391**—*Comparative Economic Systems.* (S)
Prerequisite: Economics 201-202. The nature of capitalism, socialism, communism, and fascism and the state of economic society in the various areas of the world. Three periods a week for first semester. Three credits.

**Economics 392**—*Economic Development.* (S)
Prerequisite: Economics 201-202. An examination of the problems of accelerating economic development in poor countries and maintaining development in rich countries. This study will progress from the viewpoints of theory, history and policy in attempting to explain the forces that give long period growing power to an economy. Three credits.

**Economics 401, 402**—*International Economics.* (S)
Prerequisite: Economics 201-202. World economic resources, international trade, and economic problems in international relationships. Three periods a week. Three credits each semester.

**Economics 441, 442**—*History of Economic Thought.* (S)
Prerequisite: Economics 201-202. Survey of ancient and medieval economic thought; the Physiocrats and the mercantilists; the classical and neo-classical economists; and trends in economic thought since the middle of the nineteenth century. Three periods a week. Three credits each semester.

**Economics 471, 472**—*Independent Study in Economics.* (S)
Directed individual research on an approved problem in economics. Three credits each semester.

**Economics 481**—*Economics Seminar* (S)
Open to all economics majors of junior and senior status. Group project on an approved problem in economics. Three credits.

## Political Science

For a major in political science the requirements are 24 credits in political science in addition to Political Science 101, 102. The major program must include Political Science 301, 302, and two of the following theory courses: Political Science 441, 442, and 443. The related subjects may be selected from additional courses in political science or other social sciences as approved.

**Political Science 101**—*Introduction to Political Science I.* (S)
A survey of the basic concepts and theories of political science from classical antiquity to the present, including contemporary analytical techniques. Three credits.

**Political Science 102**—*Introduction to Political Science II.* (S)
A continuation of Political Science 101, placing primary emphasis upon modern comparative political analysis and international relations. Three credits.

**Political Science 201, 202**—*American Government.* (S)
The principles of political science as applied to American national government, state governments, and local government. Three credits each semester.

**Political Science 211**—*Congress and the Political Process.* (S)
An analysis of the legislative process in the United States, focused on the contemporary role of Congress in its relation with the Presidency, the federal bureaucracy, and pressure groups. Three periods a week for the first semester. Three credits.

**Political Science 212**—*The American Presidency.* (S)
An analysis of a fluid institution in a going political system. Stress will be placed on the evolution of the modern Presidency and its relationship to democratic theory. Three periods a week for the second semester. Three credits.

**Political Science 301**—*Comparative Government I.* (S)
A comparative analysis of the governments of the United Kingdom, France, and West Germany. First semester. Three credits.

**Political Science 302**—*Comparative Government II.* (S)
A comparative analysis of the governments of the Soviet Union and Eastern Europe. Second semester. Three credits.

**Political Science 304**—*Contemporary American Politics.* (S)
An in-depth analysis of selected problems in contemporary American politics. The course will be conducted as a seminar with emphasis on independent student research. Permission of the instructor is required for admission. Three periods a week. Three credits.

**Political Science 311, 312**—*Public Administration.* (S)
The administrative aspects of government, problems of organization, fiscal control, administrative control, and a study of employment relations with personnel administration. Three periods a week. Three credits each semester.

**Political Science 321**—*Theory of International Politics.* (S)
An analysis of contemporary theory of international politics, including an evaluation of the United Nations and other international organizations. First semester. Three credits.

**Political Science 322**—*Problems in International Politics.* (S)
A continuation of 321, focusing on the major contemporary problems in international politics such as Vietnam, the Middle East, European integration, and the Cold War. Second semester. Three credits.

**Political Science 332**—*Metropolitan Problems.* (S)
An analytical study of the problems of American cities and other local areas. Three credits.

**Political Science 334**—*Political Parties.* (S)
The structure and functions of political parties; the conduct of elections; and pressure groups. Three credits.

**Political Science 341, 342**—*Government Finance.* (S)
Same as Economics 341, 342—Government Finance. Expenditures and revenues of federal, state, and local governments, the problems of

taxes, the public debt and fiscal administration. Three periods a week. Three credits each semester.

**Political Science 351, 352**—*Political Problems of Latin America.* (S)
A comparative analysis of the problems of political development confronting the nations of Latin America. Appropriate consideration will be given to the closely related problems of general development. Three periods a week for both semesters. Three credits each semester.

**Political Science 353**—*Politics of Middle and Southern Africa.* (S)
The development of nationalism, the drives for independence and the problems and politics of nation-building of the newly-independent sub-Saharan states. The politics of the white-controlled areas of southern Africa. Regional groupings. Pan-Africanism and other international aspects of African politics. Three credits.

**Political Science 354**—*Politics of South and Southeast Asia.* (S)
A study of the political development of India, Pakistan, Thailand, Laos, Cambodia and the Vietnams. Problems in the economic development of these nations will be analyzed as related. Three credits.

**Political Science 355**—*Politics of North Africa and the Middle East.* (S)
A study of the political development of the nations of North Africa and the Middle East. Emphasis will be given to the development of new political institutions in these areas. Three credits.

**Political Science 356**—*American Foreign Policy.* (S)
Problems facing the United States in its search for national security and international stability and progress; emphasis on U.S. foreign policy since World War II. Three credits.

**Political Science 357**—*Soviet Foreign Policy.* (S)
An analysis of the foreign policy of the Soviet Union, including its ideological foundations, the Communist International, Soviet policy in Eastern Europe, and the conflict with China. Three credits.

**Political Science 361**—*Problems of Communism.* (S)
A study of the origins, development and contemporary aspects of world communism. The evolution of "communist" thought: Marx, Engels, Lenin, Stalin, Mao, and post-Stalin communist writings. The history and development of communism as a political movement. The Soviet and Chinese experiences. Communism in the non-Western world. The Sino-Soviet conflict, Eastern Europe and other major features and issues of contemporary world communism. Three credits.

**Political Science 422**—*American Civil Liberties.* (S)
An intensive analysis of civil liberties in the United States, based primarily upon decisions of the Supreme Court. Three credits.

**Political Sciene 441**—*History of Political Thought I.* (S)
An examination of the contributions to political thought of the great political theorists from Plato to Burke. Three credits.

**Political Science 442**—*History of Political Thought II.* (S)
A continuation of Political Science 441 dealing with liberalism, communism, socialism, fascism. Three credits.

**Political Science 443**—*Modern Political Analysis.* (S)
A study of the theories and application of modern political analysis. Emphasis will be placed upon the behavioral approach to politics. Three credits.

**Political Science 462**—*Geopolitics.* (S)
An examination and evaluation of geographic factors affecting world power struggles and international relations. Three periods a week. Three credits. (Same as Geography 462.)

**Political Science 481**—*Independent Study in Political Science.* (S)
Directed individual research on approved problems in political science. Three credits.

**Political Science 491**—*Political Science Seminar.* (S)
Open to all political science majors and otherwise qualified students of junior and senior status who desire to become more familiar with the literature of political science in a field selected by the instructor after consultation with the students. Approval of instructor is required. The emphasis is on intensive reading with group discussions of the selections read. Three period a week. Three credits.

## Political Economy and Public Affairs

A major program in *political economy* and *public affairs* requires the student to take Economics 201-202, Principles of Economics, and Political Science 201, 202, American Government. In addition to the above courses, the student must take 15 credit hours in economics and 15 credit hours in political science selected from courses offered by the department. These courses are to be chosen so as to provide the student with a foundation in either domestic or international public affairs.

**EDUCATION**/ *Associate Professor* Paul Slayton, Chairman; *Associate Professor* Merchent; *Assistant Professors* Holmes, Hook and Zisman; *Instructors* Vawter, J. Johnson

As a liberal arts institution, Mary Washington College is committed to the preparation of elementary and secondary teachers of the liberal disciplines. The courses necessary for obtaining certification as a teacher in either elementary or secondary schools are available as electives to students at Mary Washington College. The program for teacher preparation at Mary Washington is approved by the National Association of State Directors of Teacher Education and Certification. Consequently, completion of the certification program at Mary Washington will lead to certification in most states.

To fulfill both the graduation requirements and the teacher certification requirements, the academic adviser and the student should plan the four-year academic program with care. Where it is possible, college and certification requirements should be overlapped to avoid the necessity for a surplus of credit hours.

**Certification Requirements for Early Childhood Education (Grades K-3) and Elementary Grades (4-7)**

To be certified for Grades K-3 or 4-7, the student must possess a baccalaureate degree including requirements in three areas: general education, professional education, and academic major.

*General Education* – 60 semester hours, including a minimum of:

| | | Semester Hours |
|---|---|---|
| I. | English | 18 |
| | *Composition or exemption | 3 |
| | *Children's Literature | 3 |

* Indicates specific course required

II. Social Sciences . . . . . 18
*American history . . . . . 3
*Economics . . . . . 3
*General psychology . . . . . 6
III. Mathematics . . . . . 6
IV. Science . . . . . 6
V. Art and Music . . . . . 6
to include *Music 301-302
VI. *Health Education . . . . . 2
VII. Physical Education . . . . . 4
to include *Creative Dance and
*Children's Games

*Professional Education (Early Childhood K-3)*

Semester Hours

I. Psychology . . . . . 6
*Developmental Psychology: Child Development . 3
*The Primary School Child . . . . . 3
II. *Teaching the Young Child . . . . . 3
*Teaching of Reading . . . . . 3
III. *Supervised Teaching in the Kindergarten . . . . . 6
(See Supervised Teaching, Page 82.)

*Professional Education (Elementary Grades 4-7)*

Semester Hours

I. Psychology . . . . . 6
*Developmental Psychology: Child
Development . . . . . 3
*Developmental Psychology: Adolescent Development . . . . . 3

II. *Teaching in the Elementary School . . . . . 3
*Teaching of Reading . . . . . 3
III. Supervised Teaching . . . . . 6
(See Supervised Teaching, Page 82.)

**Certification Requirements For Secondary School Subjects.**

To meet requirements to teach a subject in the secondary school, students must hold a baccalaureate degree and complete work in general education, in professional education and in the subject to be taught.

*General Education*

| | | Semester Hours |
|---|---|---|
| I. | Humanities | 12 |
| | *English composition or exemption | 3 |
| | and the balance from any of the following fields: foreign language, literature, speech, fine arts, music, or philosophy. | |
| II. | Social Sciences | 12 |
| | *American history | 3 |
| | *General psychology | 6 |
| | Balance from any of the following fields: history, sociology, economics, political science, geography, or psychology. | |
| III. | Laboratory science and mathematics (at least one course in each area) | 12 |
| IV. | *Health education | 2 |
| V. | Physical education | 2 |

*Professional Education*

| | | Semester Hours |
|---|---|---|
| I. | Psychology | 3 |
| | *Developmental Psychology: Adolescent Development | 3 |
| II. | 300-level education course appropriate to subject area (to be taken during junior year) | |
| III. | Education 420, Foundations of Secondary Education | 3 |
| IV. | Education 440, Supervised Teaching | 6 |

(See Supervised Teaching, Page 82.)

*Areas of Specialization*

The minimum hours required in the subject taught on the secondary level are itemized below and may include any hours that have been included in the general education requirements. However, a student should major in the subject he wishes to teach so that an adequate depth and background are assured. Student teaching in the secondary school will be permitted only in the student's major subject.

**Art** ..... 30
Distribution in art courses as follows:
a. Design, drawing, painting, graphics. .12
b. Sculpture ..... 6
c. Ceramics and crafts ..... 6
d. History and appreciation of art ... 6

**English** ..... 30
Shall include courses in English literature, American literature, and linguistics. Should include also a course in advanced composition and writing.

**Dramatics** .....12
**Speech** ..... 12
**Foreign Language** .....30
Shall include 30 semester hours of language and literature including the beginning, intermediate, and other courses which may have been taken prior to college study.

(Note: For endorsement in a second foreign language the student must present 24 hours of credit in that language.)

**Latin** .....24
(NOTE: For endorsement in Latin as a second language or in addition to English the applicant must present 18 semester hours of Latin language and literature, including the beginning, intermediate, and other courses which may have been taken prior to college study.)

**Mathematics**

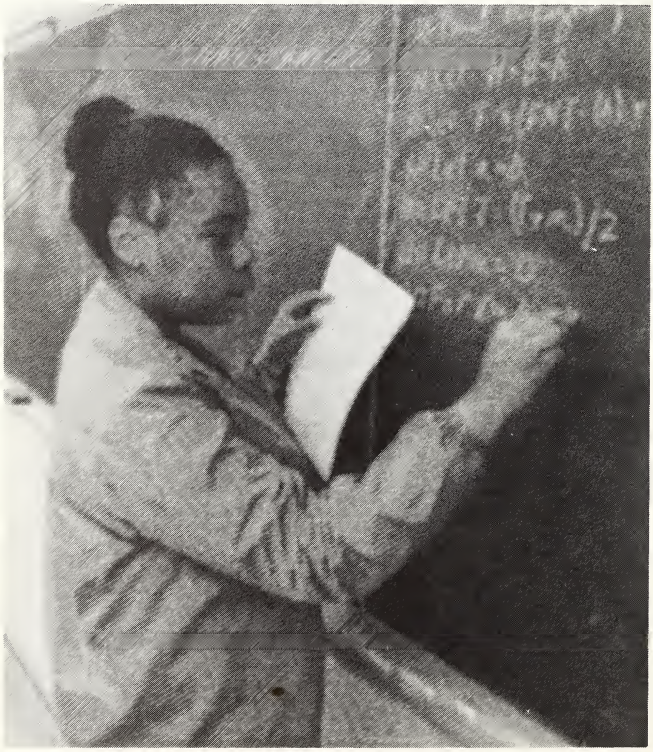
a. All high school mathematics ..... 27
(NOTE: Shall include a course in analytic geometry and calculus and should include courses in modern algebra, geometry, probability, and/or statistics.

b. Pre-algebra mathematics ..... 16
(Eighth and ninth grade arithmetic, consumer mathematics, basic mathematics, and business mathematics.

**Music** ..... 36

a. Performance ..... 18

b. Basic musical knowledge ..... 18



**History and the Social Sciences** . . . . . 42

The credit shall be distributed as follows:

a. History . . . . . .18
b. Government . . . . . .12
c. Economics . . . . . 6
d. Geography . . . . . 6

To teach a specific social science subject, the student must complete the following minimums:

a. History (selected from not less than two of the following: American history, ancient history, and contemporary affairs) . . . . . 24
b. Economics . . . . . 18
c. Geography . . . . . 18
d. Political Science . . . . . .18
e. Sociology . . . . . 18

NOTE: An applicant for a separate endorsement in history, geography, government or sociology must complete a course in basic economics.

**Science**

a. Biology . . . . . 24
   Shall include a laboratory course in introductory biology. In addition, a year's course in organic chemistry, physics, and mathematics should be completed.
b. Chemistry . . . . . 24
   Shall include courses in general principles and organic, analytical, and physical chemistry. In addition a year's course in biology, physics and mathematics should be completed.
c. Earth Science . . . . . 24
   Shall include a year's course in general college geology and a semester's course in each of two of the following: astronomy, meteorology, oceanography and physical geography.
d. General Science . . . . . 24
   The student must present credit in at least three science fields: biology, chemistry, physics or earth science.

e. Physics . . . . . 20
Physics, alternate endorsement . . . . . 16
All persons with a college major in astronomy or with endorsement in biology, chemistry, or mathematics (all high school subjects) shall be endorsed in physics with sixteen semester hours in physics, eight semester hours of which must be in courses above the introductory level which use calculus.

**Education 205**—*Children's Literature.* (D/E)
A study of the various sections of children's literature—fables; myths; folk and hero stories; and poetry. Open to juniors and seniors only. Three credits.

**Education 300**—*Teaching in the Primary School(K-3).* (D/E)
Primary consideration will be given to principles, practices and materials in primary school programs (K-3). Emphasis will be placed upon the diagnosis of readiness for learning activities, motivation, the role of play, the experience curriculum and the activity-type program. Three credits.

**Education 301**—*The Primary School Child (K-3).* (D/E)
Consideration of the interrelationship of the kindergarten-primary school-age child's physical, psycho-social and linguistic development with special emphasis on such pragmatic techniques as case studies and developmental reports. Three credits.

**Education 312**—*Teaching in the Elementary School.* (D/E)
The purposes and organization of the elementary school and its curriculum; subject content and instructional methods related to child growth and development with emphasis on the teaching of subject disciplines, classroom management and evaluation of pupil progress. Three credits.

**Education 320**—*Teaching Reading in the Elementary School.* (D/E)
A specialized course in the principles and techniques for teaching reading. Major emphasis will be upon the patterns of language development, the structure of the language, the relationship of oral to written communication, and the tools available to the teacher in furthering the general language development of youth. Three credits.

**Education 332**—*The Teaching of Foreign Languages.* (D/E)
The principles and techniques of teaching modern and classical languages in the secondary school. Some important areas developed are: selecting materials of instruction in foreign languages, planning and guiding learning experiences, and appraising the results of the teaching-learning process. Three credits.

**Education 342**—*Seminar in Art Education.* (D/E)
Designed for students who expect to teach art, but open to other art majors. Study of the scope and place of the visual arts in the world today; of adult and child attitudes and aptitudes; and the development of a philosophy toward creative work, some practice in organizing a flexible and workable program for future teaching or study. Three credits.

**Education 352**—*The Teaching of Mathematics.* (D/E)
Consideration of principles and techniques of teaching and instructional materials for teaching mathematics in the secondary school. Some important areas developed are: planning and guiding learning experience in mathematics and appraising the results of the teaching-learning process. Three credits.

**Education 362**—*The Teaching of Music.* (D/E)
(See Music 311, 312 in the listing of courses of the Department of Music.) Completion of this course suffices to fill the teaching of subject requirement for certification purposes. Three credits.

**Education 372**—*The Teaching of the Social Sciences.* (D/E)
The purposes and organization of the secondary social science curriculum; subject matter content and instructional methods in the various social sciences. Some important areas developed are: planning and guiding learning experiences in social science and appraising the results of the teaching-learning process. Three credits.

**Education 382**—*The Teaching of the Sciences.* (D/E)
The purposes and organization of the secondary science curriculum; subject matter content and instructional methods in the various sciences. Some important areas developed are: planning and guiding learning experiences in science and appraising the results of the teaching-learning process. Three credits.

**Education 392**—*The Teaching of English and Dramatics.* (D/E)
The purpose and organization of the secondary language arts curricula; and subject matter content and instructional methods related to the development of language skills and tastes during the adolescent years. Consideration of principles, techniques, and materials of instruction for teaching English and dramatics in the secondary school. Three credits.

**Education 420**—*Foundations of Secondary Education.* (D/E)
(To be taken concurrently with Education 440.) An analysis of the role of education in the United States. Major emphasis in this course is on the contributions of the foundation disciplines to theory and practice in American schools; history of education, sociology, philosophy, and psychology of learning. Three credits.

**Education 430**—*Philosophy of Education.* (D/E)
A study of recent and current philosophies of education through the writings of representatives of the major positions. Special emphasis will be given to fundamental educational problems: the nature of the learner, the role of the teacher, the agencies responsible for education, and the philosophical aspects of curriculum and methodology.

**Education 440**—*Supervised Teaching.* (D/E)
Prerequisite: Appropriate 300 level course in education. Orientation to teaching under direction of supervisors in public elementary and secondary schools. Included is practical experience in the classroom, laboratory, and field activities, as well as with other aspects of the total school program. Other regulations governing acceptance into supervised teaching are found below. Offered each semester. Six credits. (See Admissions Catalogue for information concerning fees during off-campus student teaching assignment.)

## Supervised Teaching

Facilities for student teaching in both elementary and secondary schools are available in three localities: the Richmond area, the Fredericksburg area, and the Northern Virginia area. Under the cooperative arrangements in effect, students in their senior year are assigned to specific classes for observation, participation, and teaching responsibilities under the guidance and supervision of experienced teachers. Supervised teaching is available in the high school academic subjects and in the elementary grades, as well as in art and music.

Students seeking certification should reserve one semester of the senior year primarily for student teaching. During that semester the student should enroll for Education 440, Supervised Teaching. A total of 12 hours will be considered a normal load of courses during this semester; therefore, only two other courses may be taken during the period the student is enrolled in Education 440.
(For student teachers choosing assignment in the Richmond and Northern Virginia areas, the Education 420 course will be taught in those areas by members of the Mary Washington College Department of Education. Arrangements for the additional course may be made through colleges in those areas.)

For assignment to supervised teaching, students must meet the eligibility requirements, which include (a) senior status;

(b) an average of at least "C" in general and in the major field, and (c) aptitude for the profession. Secondary school teachers must major in the subject they plan to teach as well as meet the above requirements. Enrollment is by permission of the Department of Education and is contingent on the availability of space in the cooperating school divisions. Transportation to and from the cooperating school is the responsibility of the student. Students applying for positions in supervised teaching should submit the appropriate application forms to the Department of Education by March 1 for the summer session, by April 1 for the Fall Session, or by November 1 for the Spring Session.

**ENGLISH**/ *Associate Professor* Donald E. Glover, Chairman; *Professors* Brown, Croushore, Early, Griffith, W.B. Kelly, S.H. Mitchell, Simpson; *Associate Professors* Fleming, Hanna, N.H. Mitchell; *Assistant Professors* Carruthers, Dervin, Hansen, Kemp, Lutterbie, Nadeau, Singh.

Students choosing to major in English must take at least 24 credits in English courses numbered 300 or higher and 12 credits in related fields. The 24 hours in advanced English courses must include 6 hours in courses numbered 308 to 326; 6 hours in courses numbered 335 - 376; 6 hours in 400 courses.

It is recommended that English majors who plan to do graduate work take two foreign languages, preferably French and German.

The 12 credits of related study are to be selected, with the approval of the student's adviser, from among the courses numbered 200 or higher in the following departments; six credits must be offered from a single department; the remaining 6 must be offered from one or more other departments:

Art (courses in art history)
Dramatic arts (courses in dramatic literature; Drama 381, Introduction to Film)
History
Languages
Linguistics

Music (courses in the history and literature of music)
Philosophy
Psychology (Psycholinguistics only)
Religion (including Religion 105)
Speech 331, 332, Oral Interpretation

Honors in English are awarded for high achievement in the major program, measured by grade point average in the major courses, and three critical papers submitted to the departmental Honors Committee by April 15 of the student's senior year.

**English 101**—*Writing Workshop.*
Group and tutorial instruction in the fundamental methods and forms of writing, including logical presentation, research techniques, mechanics of writing, and accurate use of language. Designed for elective credit and to assist students to meet the College requirement that each student demonstrate competence in English composition. Three credits. Offered each semester.

**English 201**—*Composition.* (D/E)
Study designed to assist students already competent in the fundamentals of composition to improve the style and effectiveness of their expository writing. Study of prose models and close analysis of student papers. Three credits.

**English 206**—*Introduction to Creative Writing.* (D/E)
Study aimed at developing skill in creative writing. Individual assignments are adapted to the particular interests and levels of ability of the students. Three credits.

**English 209**—*Writing for the Mass Media.* (D/E)
An historical survey of mass communication with emphasis on its role in contemporary society. Special consideration is given to the various techniques of news writing, editing, and editorial interpretation. Three credits.

**English 211**—*Survey of English Literature.* (L)
Literary movements and types from Beowulf through the eighteenth century. Three credits for the first semester.

**English 212**—*Survey of English Literature.* (L)
Literary movements and types from the Romantic movement to the present. Three credits for the second semester.

**English 221**—*Survey of American Literature.* (L)
American backgrounds and literary movements and types from the colonial writers through Whitman. Three credits for the first semester.

**English 222**—*Survey of American Literature.* (L)
American backgrounds and literary movements and types from Dickinson to the present. Three credits for the second semester.

**English 231**—*Short Fiction.* (L)
A study of selected short stories and short novels. Three credits.

**English 232**—*The Novel.* (L)
A study of the form, content, and development of selected novels. Three credits.

**English 233**—*Poetry.* (L)
A close analysis of poetic form and content. Three credits.

**English 234**—*Shakespeare.* (L)
A study of Shakespeare's achievement in selected plays and poems. Three credits. (No additional credit will be allowed for English 425, 426.)

**English 235**—*Tragedy.* (L)
Tragedy as form and idea reflected in selected literary and dramatic works of world literature. Three credits.

**English 236**—*Comedy.* (L)
A study of comic conventions in selected works of world literature. Three credits.

**English 241**—*Issues in Literature.* (L)
Studies in significant literary figures, movements, topics. Three credits each semester.

**English 301, 302+**—*Literary Criticism.* (L)
A study of literary criticism from Plato to the present with emphasis on forms other than drama. Readings and class discussions will focus on historical developments in literary theory. Examples of critical practice and practical experience in criticism will be offered. Three credits each semester.

**English 305**—*The English Language.* (L)
Structural and transformational grammars and their application to the English language. Semantics in the theory of language. Three credits, offered each semester.

**English 308**—*Medieval English Literature in Translation.* (L)
A study of some of the major works and genres of Anglo-Saxon and Middle English literature, including lyric, heroic and romance nar-

ratives and drama. Knowledge of the languages is not required. It is recommended that English 308 be taken before English 422 (Chaucer). Three credits for the first semester.

**English 315, 316+**—*The English Renaissance.* (L)
The non-dramatic poetry and prose of the Elizabethan, Jacobean, and Caroline periods. Three credits each semester.

**English 325, 326+**—*Eighteenth Century Literature, 1660-1800.* (L)
A study of the main types of literature in England from the Restoration through the eighteenth century, with particular attention to the development of neoclassical values and their decline and the rise of romanticism. Three credits each semester.

**English 335, 336+**—*Nineteenth Century English Literature.* (L)
First semester, Romantic poetry and prose; second semester, Victorian poetry and prose. Three credits each semester.

**English 355, 356+**—*Nineteenth Century American Literature.* (L)
First semester, literary romanticism in American prose and poetry; second semester, literary realism in American prose and poetry. Three credits each semester.

**English 363**—*Contemporary British and American Poetry.* (L)
Studies in British and American poetry from 1930 to the present. Three credits for the first semester.

**English 365, 366+**—*Modern Literature.*
A comparative study of important European, British, and American authors from 1885 to the present. Three credits each semester.

**English 375, 376+**—*Special Studies.* (L)
Studies in significant literary figures, movements, topics.

1973-1974 (1st semester) Black Novel
1973-1974 (2nd semester) Contemporary European Fiction
1974-1975 (1st semester) Black Novel
1974-1975 (2nd semester) Contemporary European Fiction

**English 406**—*Workshop in Writing.* (L)
Practice in creative expression. Admission by consent of the instructor. Three credits.

**English 411**—*Studies in the Drama.* (L)
Major problems, movements, or figures in the drama. Three credits for the first semester.

**English 413**—*Studies in Poetry.* (L)
Major problems, movements, or figures in poetry. Three credits for the second semester.

**English 415, 416+**—*The Novel.* (L)
Development of the novel in England and America. Three credits each semester.

**English 417, 418+**—*English Drama.* (L)
The origin and development of drama from the Middle Ages. First semester, Middle Ages to the Restoration; second semester, the Restoration to the present. Three credits each semester.

**English 422**—*Chaucer.* (L)
The cultural context and literary achievement of Chaucer as illustrated by the *Canterbury Tales.* It is recommended that English 308 (Medieval English) be taken before this course. Three credits for the second semester.

**English 425, 426+**—*Shakespeare.* (L)
Shakespeare's development as a dramatist. Three credits each semester.

**English 436**—*Seventeenth Century Studies.* (L)
Intensive study of significant figures, movements, or problems in the literature of the seventeenth century. Three credits for the second semester.

**English 445**—*Eighteenth Century Studies.* (L)
Intensive study of significant figures, movements, or problems in the literature of the eighteenth century. Three credits for the first semester.

**English 455**—*Nineteenth Century English Studies.* (L)
Intensive study of significant figures, movements, or problems in nineteenth century English literature. Three credits for the first semester.

**English 466**—*Twentieth Century English Studies.* (L)
An intensive study of a few modern writers. Three credits for the second semester.

**English 475**—*Nineteenth Century American Studies.* (L)
Intensive investigation of significant literary figures, movements, or problems in nineteenth century American literature. Three credits for the first semester.

**English 486**—*Twentieth Century American Studies.*
Intensive investigation of significant literary figures, movements, or

problems in twentieth century American literature. Three credits for the second semester.

**English 490, 491, 492, 493**—*Independent Study.* (L)
Individual study under the direction of a member of the staff. From three to twelve hours, not more than six to be taken in the junior year. Three to twelve credits. (By permission of the department.)

## GEOGRAPHY/*Professor* Samuel T. Emory, Jr., Chairman; *Associate Professor* Bowen; *Assistant Professors* Byrd, Gouger.

A student wishing to major in geography must take a total of 36 hours in the department in addition to 6 hours of introductory geology. The total program must form a coherent group of courses and must be planned in consultation with the student's adviser. Suggested programs are outlined in the *Handbook for Geography Majors,* copies of which may be obtained from the departmental office.

Courses taken to fulfill basic college requirements may not be counted as part of the major program.

A distinguished performance in the major program, in addition to a high level of achievement throughout the college career, will entitle a Geography major to be considered for graduation with Honors in Geography. The student should consult his adviser for details.

**Geography 212**—*World Cultural Geography.* (S)
A study of the world by regions, with emphasis on the cultural differences among nations. Three credits.

**Geography 241**—*Introduction to Economic Geography.* (S)
A study of the world distribution of man's economic activities through the analysis of primary, secondary and tertiary activities and the effect of physical, cultural, economic, and political factors upon them. Three credits.

**Geography 275**—*Human Environment: Perception and Utilization.*(S)
A study of human ecology stressing the quality of the environment. Emphasis on pollution, resource utilization and conservation, and man's role in changing the face of the earth. Three credits.

**Geography 312**—*Geomorphology.* (D/E)
The origin and development of landforms and their relation to underlying structure. Three credits.

**Geography 313**—*Weather and Climate.* (D/E)
An analysis of weather processes, distribution of climatic regions, the relationship between climate, vegetation, and soil regions, and the impact of climate upon man's activities. Three credits.

**Geography 320**—*Geography of Anglo-America.* (S)
A study of the regional geography of the United States and Canada, stressing differences from place to place in land, landscapes, life, and livelihood. Three credits.

**Geography 321**—*Geography of Europe.* (S)
A survey of the European continent including the climate, surface features, natural resources, population, agriculture, industry, and trade of each European nation and the nation's position in the world today. Three credits.

**Geography 326**—*Geography of the Soviet Union.* (S)
A study of the landforms, climate, boundaries, trade, resources, people and cultural groupings of the Soviet Union. Three credits.

**Geography 331**—*Geography of East Asia.* (S)
A study of the landforms, climate, boundaries, trade, resources, people, and cultural groupings of Eastern Asia, including China, Japan, and Southeast Asia. Three credits.

**Geography 332**—*Geography of West Asia.* (S)
A study of the landforms, climate, boundaries, trade, resources, people and cultural groupings of Southern and Western Asia, including the Middle East. Three credits.

**Geography 333**—*Geography of Africa.* (S)
A study of the landforms, climate, peoples, boundaries, trade, and cultural groupings of the African continent. Three credits.

**Geography 334**—*Geography of South America.* (S)
A survey of the population, natural resources, geographic regions, and potentialities of South America; the significance of this region in the economic and political affairs of the world. Three credits.

**Geography 335**—*Geography of Middle America and the Caribbean.*(S)
A survey of the population, natural resources, geographic regions, and potentialities of Middle America and the Caribbean; and the significance of this region in the economic and political affairs of the world. Three credits.

**Geography 340**—*Economic Geography.* (S)
A study of the distribution of economic resources, the trade which results from these resources, their cause and effect. Three credits.

**Geography 341**—*Economic Geography.* (S)
Prerequisite: Geography 241 or permission of the instructor. A detailed analysis of the locational aspects of man's economic activities. Emphasis is upon location theory in the secondary and tertiary sectors of the economy. Three credits.

**Geography 345**—*Urban Geography.* (S)
A systematic study of the internal and external spatial relationships of cities and city-systems. Factors included are site, situation, distribution, function, development and contemporary problems of urban centers. Three credits.

**Geography 414**—*Air Photo Interpretation.* (D/E)
A study of the principles of photogrammetry, the uses of aerial photographs, and the identification and interpretation of physical and cultural features. Three credits.

**Geography 415**—*Cartography.* (D/E)
A study of methods, theory, and practice of map construction. Four credits.

**Geography 416**—*Advanced Cartography.* (D/E)
Prerequisite: Geography 415. Four credits.

**Geography 418**—*Field Geography.* (S)
The study of basic methods of field study in cultural, economic and physical geography climaxing with the in-depth field study of a selected area of geographic interest. Six credits. Summer session only.

**Geography 422**—*Historical Geography of North America.* (S)
A study of the geography of selected regions of North America during designated periods of history. Emphasis will be placed upon settlement geography, historical economic geography, and geographical change through time. Three credits.

**Geography 445**—*Advanced Urban Geography.* (S)
Prerequisite: Geography 345 or permission of the instructor. An intensive view of the geographic factors relating to urban structure. Major themes are the size, spacing, and functions of cities; city-region relationships; central-place systems; urban economic base; and urban population characteristics. Three credits.

**Geography 461**—*Geographical Influences on History.* (S)
A study of the influence of man's physical environment on history, with emphasis on American history. Three credits.

**Geography 462**—*Political Geography.* (S)
A study of geographic factors in world power and international affairs. Three credits.

**Geography 480**—*History of Geographic Thought.* (S)
A study of the development of theory, philosophy and methods in geography. Three credits.

**Geography 490**—*Special Problems in Geography.* (S)
An independent study of some geographic problem selected in consultation with the department. May be repeated for credit. Three to six credits.

## GEOLOGY/*Professor* Samuel O. Bird, Chairman; *Assistant Professor* Stablein

Students majoring in geology are required to take 24 hours in geology including no more than 4 semesters of 100 and 200 level courses. Majoring students are strongly urged to complete at least one-year courses in calculus, physics and chemistry. Also recommended are analytic and physical chemistry, differential equations, appropriate biology courses and statistics. All programs are to be formed in consultation with geology staff and will include at least 12 hours in courses closely allied to geology.

**Geology 120**—*Physics and Chemistry of the Earth.* (N/M)
Earth's origin, structure, mineral and rock compositions and environments. Earth's internal energy balance. Two single and one double period per week. Three credits.

**Geology 121**—*Atmosphere and Hydrosphere.* (N/M)
Physical dynamics of atmosphere and oceans and their interaction. Ocean resources and biologic energy systems. Two single and one double period per week. Three credits.

**Geology 122**—*Continental Processes.* (N/M)
The origin and evolution of the earth's surface. Two single and one double period per week. Three credits.

**Geology 123**—*Earth Science Seminar.* (N/M)
Selected topics for students with strong science backgrounds or interests and a penchant for individual, outside-classroom work. Two single and one double period per week. Three credits.

**Geology 202**—*Introductory Readings in Geology.* (D/E)
A general interest, non-laboratory course dealing with concepts of earth origin and structure, geologic environments, and evolution. The course will not fulfill requirements in major fields of geology or geography and will not count toward area requirements. Three credits.

**Geology 220**—*Geochemistry.* (N/M)
Investigation of surface and subsurface chemical processes. Monitoring and modeling of natural waters. Two single and one double period per week. Three credits.

**Geology 230**—*Ancient Biologic Systems.* (N/M)
Problems of population dynamics, ecology and evolution as seen in the geologic column. Two single and one double period per week. Three credits.

**Geology 300**—*Readings in Geology.* (N/M)
Selected topics of investigation for advanced students. Three credits.

**Geology 312**—*Geomorphology.* (D/E)
The origin and development of landforms and their relation to underlying structure. Three credits.

**Geology 430**—*Independent Study.* (N/M)
Individual investigation of geologic problems to be chosen in consultation with the staff. Three credits.

## HEALTH, PHYSICAL EDUCATION, AND RECREATION/

*Associate Professor* Miriam Greenberg, Chairman; *Professors* Benton, Read; *Associate Professors* Arnold, Droste, Woosley; *Assistant Professors* Clement, Tussey; *Instructors* Dosch, Dragomanovic, Harty, and Kirschner.

A program leading to the B.A. degree with the major in dance is described on page 96.

The following departmental requirements and information should be noted.

1. Each student must take one year of physical education. Up to three additional years of physical education will be credited to the degree, on the basis of one course and one credit per semester.
2. Each student is expected to participate in physical education activities. If a student's health restricts his participation, he is expected to take some modified activity. Such a student shall arrange his physical education work in consultation with the chairman of the department.
3. A student may take any course which the department offers on the level for which he is qualified.
4. A student may not enroll in more than one course in physical education during a semester without the approval of the department chairman.
5. Satisfactory/Unsatisfactory. Grades in the Physical Education Department (with the exception of the Dance courses) are "S" and "U." "U" means that the requirement has not been met, and an additional course must be taken. Credits earned with an "S" count towards graduation but carry no quality points.
6. A Satisfactory/Unsatisfactory course is not the same as a Pass/Fail course. They may be taken concurrently at any time.

### Health Education

**Health Education 100**—*Contemporary Health Problems.* (D/E)
Two periods a week for one semester. Two credits.

## Physical Education

All classes meet three periods per week or the equivalent. All carry one credit.*

**Physical Education 101, 102; 201, 202; 301, 302; 401, 402 –** *Field Hockey.* (D/E)

**Physical Education 103, 104; 203, 204; 303, 304; 403, 404–** *Basketball.* (D/E)

**Physical Education 105, 106; 205, 206; 305, 306; 405, 406–** *Volleyball.* (D/E)

**Physical Education 109, 110; 209, 210; 309, 310; 409, 410–** *Lacrosse.* (D/E)

**Physical Education 111, 112; 211, 212; 311, 312; 411, 412–** *Gymnastics.* (D/E)

**Physical Education 113, 114; 213, 214; 313, 314; 413, 414–** *Individual Exercise.* (D/E)

**Physical Education 115, 116; 215, 216; 315, 316; 415, 416–** *Swimming.* (D/E)

**Physical Education 117, 118; 217, 218; 317, 318; 417, 418–** *Correctives.* (D/E)

**Physical Education 119–***Fundamentals of Movement.* (D/E)

**Physical Education 120–***Introduction to Dance.* (D/E)

**Physical Education 121, 122; 221, 222; 321, 322; 421, 422–** *Ballet.* (D/E)

**Physical Education 123, 124; 223, 224; 323, 324; 423, 424–** *Modern Dance.* (D/E)

**Physical Education 125, 126; 225, 226; 325, 326; 425, 426–** *Tap Dance.* (D/E)

**Physical Education 127, 128; 227, 228; 327, 328; 427, 428–** *Folk and National Dance.* (D/E)

*100 numbers indicate first level; 200 numbers indicate second level, etc. Dance courses having the same number as a Physical Education course may not be taken for additional credit.

**Physical Education 129, 130; 229, 230; 329, 330; 429, 430**—*American Folk and Square Dance.* (D/E)

**Physical Education 131, 132**—*Officiating.* (D/E)

**Physical Education 133, 134; 233, 234; 333, 334; 433, 434**—*Tennis.* (D/E)

**Physical Education 135, 136; 235, 236; 335, 336; 435, 436**—*Golf.* (D/E)

**Physical Education 139, 140; 239, 240; 339, 340; 439, 440**—*Archery.* (D/E)

**Physical Education 141, 142; 241, 242; 341, 342; 441, 442**—*Fencing.* (D/E)

**Physical Education 145, 146; 245, 246; 345, 346; 445, 446**—*Badminton.* (D/E)

†**Physical Education 147, 148; 247, 248; 347, 348; 447, 448**—*Riding.* (D/E)

**Physical Education 232**—*Camp Leadership.* (D/E)
Fundamentals and practice of camping and camp leadership. One credit.

**Physical Education 249**—*Children's Games.* (D/E)
The child and the activities which will benefit him most at the various stages in his development. One credit.

## Dance

The dance major is designed to provide a liberal arts education as well as a broad dance education. The development of the student as a person by allowing for creative self-expression and by stressing the goal of excellence is viewed also as an aim of the dance major. It offers opportunities for in-depth study in areas of the student's choice: acquiring proficiency in performance or specifically applying dance in other areas (research, therapy, notation, education or criti-

†Written permission of parent or guardian must be presented before enrollment in this course may be completed. Each student will have an opportunity to ride in the annual Horse Show.

cism). Consequently, this major provides a thorough education while laying a foundation for further study or specialization in dance.

The 40 credits within the major are as follows:

Studio Dance . . . . . 6
Dance 211, 212, Theories of Movement . . . . . 6
Dance 231, Compositional Forms . . . . . 3
Dance 232, Dance Styles . . . . . 3
Dance 350, 351, 352, 353
choice of 2 of the History related courses . . . . . 6
Dance 431, 432, Choreography . . . . . 6

Additional credits in dance* . . . . . 10
40

*Additional credits in dance to be selected from these courses:

Studio Dance . . . . . 2
Dance 235-236, Movement for the Theater . . . . . 4
Dance 310, Creative Dance for Children . . . . . 3
Dance 331, Ethnic Dance of Western Cultures . . . . . 3
Dance 341, 342, Labanotation . . . . . 6
Dance 350, 351, 352, 353, History-related courses (if not included above) . . . . . 6
Dance 360, Dance Production . . . . . 3
Dance 440, Independent Study . . . . . 3
Dance 450, Seminar in Dance . . . . . 3
Dance Company
(1 credit each semester) . . . . . maximum 6

***Dance 121, 122; 221, 222; 321, 322; 421, 422**—*Ballet.* (D/E)
The study of ballet as a discipline toward exactness and precision of line, as a creative means of expression, and from an historical reference. One credit each semester.

***Dance 123, 124; 223, 224; 323, 324; 423, 424**—*Modern Dance.* (D/E)
The study of body movement, its relationship to space, time, and force through improvisation and exploration. One credit each semester.

*Studio Dance. Dance courses having the same number as Physical Education numbers may not be taken for additional credit.

**Dance 211, 212**—*Theories of Movement.* (H)
The comparison of selected theories of movement. First semester, the contemporary concept of total body movement (applied anatomy), Laban (effort), and kinesics. Second semester, Dalcroze (rhythm), Delsarte (gesture), Graham (energy), Humphrey-Weidman (gravity), and Wigman (space). Three credits each semester.

**Dance 231**—*Compositional Forms.* (H)
The study of structure of dance: movement phrases, rhythm, and the traditional dance forms such as AB, ABA, Theme and Variations, Fugue, Rondo, and Ground Bass. Three periods a week. Three credits.

**Dance 232**—*Dance Styles.* (H)
The study of dance related to historical periods in art, drama and music through reading, research, films, and by improvising and composing dances in primitive, archaic, medieval, pre-classic, classic, and romantic styles. Three credits.

**Dance 235-236**—*Movement for the Theater.* (H)
Prerequisite: Two credits of modern dance or proficiency. A study of movement as an instrument of communication in dramatic production through creative projects in the theater involving the interrelation of movement with mime, gesture, space, rhythm, and expression. (See also Dramatic Arts 235-236.) Four credits.

**Dance 310**—*Creative Dance for Children.* (H)
Dramatic imagery, rhythmic study, techniques of creativity, and the translation from observation of movement through pantomime to dance. Staging and production of an original dance for children. Three credits.

**Dance 331**—*Ethnic Dance of Western Cultures.* (H)
Based on an understanding of history, culture, and civilization and on a study of "how" and "why" people dance the way they do. Authentic and traditional dance forms and styles of Western Cultures. Three credits.

**Dance 341, 342**—*Labanotation.* (H)
The study and practice of reading and recording dance movement by means of symbols. The course prepares students for certificate examination on the beginning and intermediate levels. Three credits each semester.

**Dance 350**—*Dance History Survey.* (H)
A general survey of dance from earliest times—primitive, Greek, Roman, Egyptian, European, Oriental, and Spanish—to the fifteenth century. Three credits.

**Dance 351**—*History of Ballet.* (H)
An in-depth study of ballet in France, Italy, Russia and England from the fifteenth century to the twentieth century. Three credits.

**Dance 352**—*American Dance Heritage.* (H)
Readings and research, including dances of the American Indian, dance of the American Negro, the ballet as developed in America, the indigenous form of theater dance known as modern dance, and the contemporary dance. Three credits.

**Dance 353**—*History of the Dance of the East.* (H)
A general survey of the dances of the East (including China, Japan, India, Cambodia) and a comparative study of their influences on contemporary dancer-choreographers, such as Graham, Cunningham and others. Three credits.

**Dance 360**—*Dance Production.* (H)
Introduction to the practice of stage design, stage lighting, costuming, and make-up specifically for dance, with practical application in college dance productions. Three credits.

**Dance 431, 432**—*Choreography.* (H)
Prerequisite: Dance 231, 232 or permission of the instructor. This course provides the student with the opportunity to develop his own creative potential through in-depth study of selected techniques from compositional forms and dance styles. In addition, the study of contemporary techniques such as multi-media, chance, and free-form are included. Three credits each semester.

**Dance 440**—*Independent Study.* (H)
Prerequisite: Permission of the instructor. Researching, choreographing or composing an approved creative problem in dance. Development of a paper, project, performance or production. Three credits.

**Dance 450**—*Seminar in Dance.* (H)
Readings and research in contemporary dance in education, in dance therapy, in dance aesthetics and philosophy, and subsequent influences on current usage. Students may choose one or two of these areas of his study. Three periods a week. Three credits.

**Dance 02**—*Dance Company* (D/E)
Admission by audition. The art of performing in dance: problems and techniques of performance in ballet and modern dance; in solo and group dances; in repertory; and the learning and presenting of dances in concert. The group will be taught by the dance faculty with team teaching technique. Three rehearsals a week. One credit each semester to a maximum of six credits. Dance company may be taken without credit if the student is admitted by an audition.

## HISTORY/ *Professor* Joseph C. Vance, Chairman; *Professors* Lindsey, Zimdars; *Associate Professors* Bourdon, M. Houston, Ryang; *Assistant Professors* Campbell, Crawley, Klenke, Tracy, R. Warner.

Students who choose a major in history must earn 30 credits in history in addition to any history courses taken to satisfy the basic requirements. Twenty-one credits must be devoted to courses above the 200 level and must include at least one semester course on the 400 level in addition to History 490, Independent Historical Research. A student's program must be planned in consultation with a departmental adviser and approved by him.

Majors interested in Honors work should consult the chairman of the department. Students who plan to teach in Virginia should note that a course in American history is required for certification.

**History 221**—*Colonial America.* (S)
The discovery, exploration, and settlement of North America and the development of the British Colonies to 1763. Three credits.

**History 222**—*The American Revolution and the Early National Period.* (S)
Independence, the creation of the United States and its development through the Jackson period. Three credits.

**History 223**—*Civil War, Reconstruction, and The Gilded Age.* (S)
The coming of the War, the War, restoration of the Union and the problems of reconstruction, the emergence of industrial America. Three credits.

**History 224**—*Twentieth Century America.* (S)
Economic, social, and political development of the United States in the twentieth century and its rise as a world power. Three credits.

**History 231**—*Greek Civilization.* (S)
A study of the geography, history and civilization of Greece from earliest times through the death of Alexander the Great. Three credits.

**History 232**—*Roman Civilization.* (S)
A study of the geography, history and civilization of Italy and the Roman state from earliest times through the age of Justinian. Three credits.

**History 233**—*Medieval Europe.* (S)
Europe from 325 to 1400. Emphasis on the decline of the Roman Empire, migrations, the church, feudal institutions, medieval thought and the origins of modern national institutions. Three credits.

**History 234**—*The Renaissance and Reformation.* (S)
The period examined as one of transition, from the High Middle Ages to 1618. Three credits.

**History 235**—*Early Modern Europe, 1618-1815.* (S)
A study of Europe during the Age of Absolutism, the Enlightenment, the French Revolution and the Napoleonic Era. Three credits.

**History 236**—*Modern Europe, 1815 to the Present.* (S)
A survey of the period with emphasis on the Industrial Revolution, nationalism, democracy, imperialism, power politics and social reform. Three credits.

**History 301, 302**—*Diplomatic History of the United States.* (S)
A study of foreign relations from the Colonial period to the present. Three credits each semester.

**History 303, 304**—*The Old and New South.* (S)
First semester, an examination of the social, political, and economic development of the South before the Civil War. Second semester, Reconstruction, race relations, the "solid South" in politics, and the rise of Southern industry. Three credits each semester.

**History 305**—*The Frontier in American History.* (S)
The westward movement and the significance of the frontier, emphasizing the Turnerian thesis. Three credits.

**History 306**—*The Negro in American History.* (S)
A history of the Negro since the early 1600's with emphasis on his role during the Ante-Bellum period, Emancipation and Reconstruction, the nadir of the Negro in America (1878-1900), the Negro in the twentieth century with stress on the period since 1928. Three credits.

**History 307, 308**—*Social and Intellectual History of the United States.* (S)
The main traditions of thought and belief through the writings of significant figures in relation to social environment and major historical events and cultural changes. Three credits each semester.

**History 321, 322**—*Latin American History.* (S)
Colonial institutions, the independence movement, development of modern states, Organization of American States, and other international problems. Three credits each semester.

**History 323, 324**—*Social and Intellectual History of Latin America.* (S)
An intensive study of institutions and thought from preconquest Indian cultures to the present. Three credits each semester.

**History 341, 342**—*East Asian Civilization.* (S)
Survey of the development of culture and civilizations in China and Japan. Three credits each semester.

**History 343**—*Modern China and Japan.* (S)
History of modern China and Japan with a special emphasis on their rise to positions of world power. Three credits.

**History 344**—*Modern Southeast Asia.* (S)
History of modern Southeast Asia. Three credits.

**History 351, 352**—*History of England.* (S)
A general survey of English history from earliest records to the present. Emphasis upon the economic and constitutional phases and growth of the British Empire. Three credits each semester.

**History 353,354**—*History of France.* (S)
From the earliest time to the present, tracing the growth of the French nation state and the dominant role played by France in the intellectual and cultural life of Europe. Special attention is given to the French Revolution and Napoleonic period, and the course of French history through the nineteenth century to the present. Three credits each semester.

**History 355,356**—*History of Germany.* (S)
From the first appearance of the Germanic peoples in the Roman Empire through the Medieval German Empire, its dissolution and the subsequent fragmentation of the German nation. The Renaissance and humanism; Luther and the Reformation. Particular emphasis on the romantic movements in philosophy, literature and music. German nationalism, Bismark's empire, Hitler and the Third Reich. Three credits each semester.

**History 357,358**—*History of Russia.* (S)
Major social, political, economic and cultural developments from the foundation of the Kievan state to the present. First semester, medieval and eighteenth century Russia. Second semester, the revolutionary movement, the fall of the Old Regime, and the Soviet era. Three credits each semester.

**History 359,360**—*History of Spain.* (S)
From the Moorish invasions to the present with particular emphasis upon reconquest, the social and economic development in the sixteenth and seventeenth centuries, the demography of a pre-industrial society, the eighteenth century revolutions and the modern age. Three credits each semester.

**History 361,362**—*European Social and Intellectual History.* (S)
Selected studies of representative thinkers from St. Augustine to the present, emphasizing their place in the development of Western thought. Three credits each semester.

**History 370**—*Historiography.* (S)
Designed to acquaint the student with the major historians, historical writings and trends in the discipline of history and some of the general philosophical theories of history. Three credits.

**History 490**—*Independent Historical Research.* (S)
An introduction to the methods and tools of historical research with emphasis upon a formal paper, the subject to be chosen by the student. Required of history majors. Offered each semester. Three credits.

The following courses are devoted to special historical periods or topics. Their purpose is to acquaint the student with historical issues and literature by involving him in research and discussion. The focus, form, and content of each Special Studies course will be determined by the instructor. Topics will be announced in the spring for the following academic year after consideration of student interest and staff availability. Prerequisite to all Special Studies courses: appropriate 200 or 300 level course or permission of the instructor.

**History 491, 492**—*Special Studies in American History.* (S)
Three credits each semester.

**History 493, 494**—*Special Studies in European History.* (S)
Three credits each semester.

**History 495, 496**—*Special Studies in Latin American History.* (S)
Three credits each semester.

**History 497, 498**—*Special Studies in Far Eastern History.* (S)
Three credits each semester.

## HOME ECONOMICS/*Assistant Professors* R. Harris, Jamison.

The Home Economics Department is concerned with implementing the liberal arts program through courses which help prepare students to meet basic and human needs for effective living and for responsible participation in the community and the world. The Department of Home Economics offers elective courses for students in any curriculum. Credit may not be included in the total hours required for graduation if the student is fulfilling certification requirements (see page 76).

**Home Economics 104**—*International Foods.* (D/E)
A study of food patterns of various cultural groups and the way they meet the dietary needs of the people. Emphasis on the contributions of Asian, European, African, Central and Latin American civilizations. Demonstrations of the preparation of typical meals of different cultures. One single and one double period a week. Two credits.

**Home Economics 112**—*Art of Costume.* (D/E)
How the fashion world works, fashion cycles, designers, and leading markets. Consideration given to the theories of dress and adornment with implications for individual applications. Two single periods. Two credits.

**Home Economics 211, 212+**—*Contemporary Costume.* (D/E)
Consideration given to twentieth century clothing. Study of the factors influencing apparel design, as well as the newer techniques in both couturier and mass production methods of clothing construction. Lecture-demonstrations and laboratory hours. Three credits each semester.

**Home Economics 214**—*Costume Design.* (D/E)
A creative approach to the study of dress and adornment. Original designs developed and creativity expressed through various media. Lecture-demonstrations and laboratory hours. Three credits.

**Home Economics 221, 222+**—*Foods.* (D/E)
Basic principles and fundamental processes involved in the selection and preparation of foods; emphasis on the aesthetic and sociological aspects of menu planning. Two double periods a week. Three credits each semester.

**Home Economics 231**—*Nutrition.* (D/E)
Principles of human nutrition and how such knowledge may be utilized to prevent ill health and promote a high level of physical fitness. Two single and one double periods a week. Three credits.

## INTERDEPARTMENTAL COURSES

The following course is given cooperatively by the departments concerned with the natural sciences (Biology, Chemistry, Geology, and Physics). The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

**Character of Science I-II** (N/M)

This course satisfying the science requirements will be team taught by members of the Biology, Chemistry, Geology and Physics/Astronomy Departments. The unifying theme which will persist throughout the different units will be the methodology and character of science. In particular the aspects that will be stressed are (a) the capabilities and limitations of science, (b) the statistical character of natural phenomena and the limitations of measurement, (c) the "interfaces" as well as the contrasts between the disciplines, (d) the trends in scientific knowledge and the search for new laws, and (e) the social impact of science and technology.

Three and a half weeks of Astronomy, seven weeks of Physics, seven weeks of Chemistry, seven weeks of Biology, three and a half weeks of Geology. Eight credits.

## LATIN AMERICAN STUDIES/*Professor Mary Ellen Stephenson, Adviser.*

**Latin American Studies 301,302**—*Readings and Research in Latin America.* (H)

A study of selected topics in art, architecture, economics, folklore, geography, history, literature, and politics of Latin America. Three periods a week. Three credits each semester.

## LINGUISTICS/Assistant Professor A. Stephen Disraeli, Adviser.

The linguistics program aims to give students, regardless of their special interest, an understanding of the fundamental structure of language (general linguistics) and, in conjunction with other disciplines, to explore the acquisition of language and the function of language in cultures and societies (psycholinguistics, anthropological linguistics, and sociolinguistics, respectively).

English 305—*The English Language,* and a course in psycholinguistics (offered alternate years in the Department of

Psychology under Psychology 470, 471, 472, 473, 474 – *Selected Topics in Psychology)* are supportive courses. The latter course includes the following problems: how adults understand and produce sentences; how children acquire language, and the biological basis of language.

**Linguistics 101**—*Trends in Modern Linguistics.* (S)
Survey of issues in theoretical, anthropological, psycho- and sociolinguistics. Three credits.

**Linguistics 201**—*Anthropological Linguistics.* (S)
The significance of language for human social life in a variety of cultures. Cultural variations in non-verbal communication such as body language. The influence of language on a people's world view. Three credits.

**Linguistics 204**—*Sociolinguistics.* (S)
The effect of social structure on linguistic choices. The language problems of the poverty child. Linguistic nationalism in multilingual societies. Three credits.

**Linguistics 301**—*Field Methods in Linguistics.* (S)
Linguistic theory and practice as a tool in anthropological and sociological field work. The problems and techniques of obtaining and evaluating data. How to gain rapport with people from other cultures when doing field work. Prerequisite: previous linguistics course or permission of the instructor. Three credits.

**MATHEMATICS**/ *Assistant Professor* Alexander J. Lindsey, Chairman; *Professor* Carter;* *Associate Professors* A.M. Harris, Sarchet; *Assistant Professors* Gardner, L. Jones, Pierce, Tyree.

Students who undertake a major program in mathematics are required to earn 36 credits in mathematics and related subjects.

Twenty-four must be selected from courses in mathematics more advanced than Mathematics 221 and must include Mathematics 302 and Mathematics 342. At least 12 must be earned in the following fields:

Mathematics—Any 300 or 400 course undertaken in addition to the 24 credit requirement.

Physics—Any course in physics.

*First semester, 1972-73; deceased, February 24, 1973.

Astronomy—Any course in astronomy.
Philosophy—Philosophy 109, 244, 306, 344.
Chemistry—Chemistry 393, 394.
Economics—Economics 361, 362, 371, 372.
Statistics 300, 301.

**Mathematics 111**—*Mathematical Analysis I.* (N/M)
Mathematical foundation and analytic geometry of the plane. Three periods a week. Three credits.

**Mathematics 121**—*Calculus I.* (N/M)
Calculus of algebraic functions with applications. Three periods a week. Three credits.

**Mathematics 131**—*Mathematical Analysis II.* (N/M)
Logic, number bases, probability, matrix applications, analytic geometry of space and a class-selected topic. Three periods a week. Three credits.

**Mathematics 221**—*Calculus II.* (N/M)
Advanced topics of calculus of algebraic functions and calculus of transcendental functions with applications. Three periods a week. Three credits.

**Mathematics 231**—*Calculus III.* (N/M)
Solid analytics, multivariate calculus and infinite series. Three periods a week. Three credits.

**Mathematics 300**—*Linear Methods.* (N/M)
The study of Matrix Algebra with emphasis on computational methods and elementary programming techniques. Three periods a week. Three credits.

**Mathematics 301, 302**—*Higher Algebra.* (N/M)
Mappings, groups, rings, fields, vector spaces and linear transformations. Three periods a week. Three credits each semester.

**Mathematics 312**—*Differential Equations.* (N/M)
Ordinary differential equations with applications and an introduction to partial differential equations. Three periods a week. Three credits.

**Mathematics 341, 342**—*Advanced Calculus.* (N/M)
Prerequisite: Mathematics 231. Three periods a week. Three credits each semester.

**Mathematics 412**—*Complex Variables.* (N/M)
Prerequisite: Mathematics 342. Analytic functions, Cauchy-Riemann conditions, integration, power series, calculus of residues, conformal mappings, and applications. Three periods a week. Three credits.

**Mathematics 431, 432**—*Higher Geometry.* (N/M)
Basic ideas and methods of higher geometry; the geometries associated with the projective group of transformation; applications of affine and metric geometries. Three periods a week. Three credits each semester.

**Mathematics 441**—*General Topology.* (N/M)
Prerequisite: Mathematics 301. Point-set theory; simplexes and complexes; topological invariance; introduction to homology and homotopy theory. Three periods a week. Three credits.

**Mathematics 446**—*Probability.* (N/M)
Definitions of probability, combinatorial analysis, combination of events, conditional probability, common distributions, random variables, and recurrent events. Three periods a week. Three credits.

**Mathematics 451, 452**—*Numerical and Graphical Analysis.* (N/M)
Numerical and graphical methods applied to the following: solution of equations; interpolation; differentiation; integration; and solution of differential equations. Three periods a week. Three credits each semester.

**Mathematics 491, 492, 493, 494**—*Selected Topics in Mathematics.* (N/M)
A program of independent study under the direction of a member of the staff. Open to senior majors with the permission of the department. Three credits each semester.

**MODERN FOREIGN LANGUAGES**/*Professor* Mary Ellen Stephenson, Chairman; *Professors* Greene, Hoge, E. Jones, Rivera; *Associate Professors* Ascari, Blessing, Bozicevic,* Herman, Hoffmann; *Assistant Professors* Bruckner, Manolis; *Instructors* Awdziewicz, Chaves, Ohtani, Quann, J. Warner; *Assistant Instructor* L. Mann.

Major programs are offered in French, German, and Spanish. Course sequences in Italian, Japanese, Portuguese, and Russian are also available.

Students applying for admission to the College must take a College Board Achievement Test in a foreign language. If this test is taken in a modern foreign language, students planning to continue in that language will be advised of the level of the course in which they should enroll.

A student who has high school credit for two or three units in a foreign language will not receive credit for a beginning course in that language, except with permission of the department.

A student who has high school credit for four years in a foreign language will not receive credit for an intermediate course in that language, except with permission of the department.

Students who read, write, and speak a language other than English may receive credit only for advanced courses in that language.

The foreign language is the language of the classroom for all courses numbered 200 and above. The first level will use the foreign language as much as student preparation and progress allow.

Each student in elementary and intermediate classes in Modern Foreign Languages will spend a minimum of one and one half hours a week in the Language Laboratory as a part of preparation beyond and above scheduled class sessions.

*On leave of absence, 1972-73.

## French

Students who undertake a major program in French must take 38 credits in French and related subjects. These credits are to be arranged by the student, the adviser, and the department.

Each French major should reside for one session in the French House.

**French 101-102**—*Beginning French.* (D/E)
For students who enter college with fewer than two units in high school French. Five periods a week, two of which will be laboratory periods. Six credits.

**French 111, 112**—*Beginning French Pronunciation and Conversation.* (D/E)
Prerequisite: French 101-102 or two units of high school French. A basic or remedial course for serious students who lack the proficiency in French which would make them eligible for French 161-162. Two periods a week. One credit each semester.

**French 151-152**—*Intermediate French.* (D/E)
Prerequisite: French 101-102 or two to three units in high school French. Grammar review; varied reading; oral work with emphasis on the language laboratory. Three periods a week. Six credits.

**French 161, 162**—*French Conversation.* (D/E)
Prerequisite: Sophomore standing or proof of proficiency at this level. A course offered especially for majors or those planning to live in the French House, but open to others with permission of the instructor. Two periods a week. One credit each semester.

**PREREQUISITES FOR THE FOLLOWING COURSES ARE SATISFACTORY COMPLETION OF FRENCH 151-152, FOUR UNITS OF HIGH SCHOOL FRENCH, OR PERMISSION OF THE INSTRUCTOR.**

**French 201**-*Studies in Language I.* (D/E)
Grammar and composition. Recommended for majors but does not count toward a French major. Open to students who have completed four years of high school French or French 151-152. Three periods a week. Three credits.

**French 211, 212**— *Intermediate French Conversation I.* (D/E)
Discussion of timely topics in French. Two periods a week. One credit each semester.

**French 213**—*French Phonetics.* (D/E)
Introduction to intonation and phonetics, using the international phonetic symbols as applied to the French language. Recommended especially for prospective teachers of French. Two periods a week. One credit.

**French 221, 222**—*Studies in French Literature I.* (L)
Selected readings from all periods of French literature. Three periods a week. Three credits each semester.

**French 301, 302**—*Studies in Language II.* (D/E)
Advanced grammar and composition. Translation. Required of majors. Others by permission of the instructor. Three periods. Three credits each semester.

**French 311, 312**— *Intermediate French Conversation II.* (D/E)
For students capable of special fluency. Two periods a week. One credit each semester.

**French 315, 316**—*French Civilization.* (S)
Prerequisite: French 151, 152 or four units of high school French. Geography, history, and the political background of France and the French people. Three periods a week. Three credits each semester.

**French 321, 322**—*Survey of French Literature.* (L)
Open only to French majors and to certain other students who have demonstrated unusual ability in the language. Lectures, reports, and selections from representative writers. Three periods a week. Three credits each semester.

**French 331**—*Literature of the Middle Ages.* (L)
Three periods a week. Three credits.

**French 341**— *Literature of the Sixteenth Century.* (L)
Three periods a week. Three credits.

**French 351**—*Drama of the Seventeenth Century.* (L)
Three periods a week. Three credits.

**French 352**—*Non-dramatic Literature of the Seventeenth Century* (L)
Three periods a week. Three credits.

**French 361**—*The Literature of Eighteenth Century Philosophers.* (L)
Three periods a week. Three credits.

**French 362**— *The Theater and the Novel of the Eighteenth Century.*
Three periods a week. Three credits. (L)

**French 371**—*The Novel of the Nineteenth Century.* (L)
Three periods a week. Three credits.

**French 373**—*Nineteenth Century Romanticism in the Theater and in Poetry.* (L)
Three periods a week. Three credits.

**French 374**—*Nineteenth Century Post-Romantic Theater and Poetry (The Parnasse and Symbolism).* (L)
Three periods a week. Three credits.

**French 381**—*The Novel of the Twentieth Century.* (L)
Three periods a week. Three credits.

**French 382**—*Twentieth Century Poetry.* (L)
Three periods a week. Three credits.

**French 383**—*Twentieth Century Theater.* (L)
Three periods a week. Three credits.

**French 395, 396**—*French Literature in Translation.* (L)
Great French masterpieces taught in English. Not to be credited toward a French major, but may count as meeting area requirements in literature, or as an elective. Three periods a week. Three credits each semester.

**French 411, 412**—*French Conversation.* (D/E)
Required of majors unless excused after examination by the department. Two periods a week. One credit each semester.

**French 430's through 480's**— (L)
Senior seminars in the literature of successive centuries, the 430's on the Middle Ages, the 440's on the Sixteenth Century, the 450's on the Seventeenth Century, etc., through the 480's on the Twentieth Century.

**French 491, 492**—*Independent Study.*
Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

**French for Graduate Reading Examination.**
An intensive non-credit course in reading French offered to individuals working on graduate degrees. It is designed to prepare the individual for foreign language examinations given to fulfill requirements toward a Masters or Ph.D. degree.

## German

Students who choose a major program in German must take 38 credits in German and related subjects. These credits are to be arranged by the student, the adviser, and the department.

**German 101-102**—*Beginning German.* (D/E)
For students offering fewer than two units in high school German. Fundamentals of grammar, composition, conversation, and reading. Five periods a week, two of which are laboratory periods. Six credits.

**German 111, 112**—*German Conversation.* (D/E)
Prerequisite: sophomore standing or proof of proficiency at this level. Two periods a week. One credit each semester.

**German 151-152**—*Intermediate German.* (D/E)
Prerequisite: German 101-102 or two to three units of high school German. Grammar review and conversation; and reading of modern German texts. Three periods a week. Six credits.

**German 215, 216**—*German Culture and Institutions.*
The development of German culture with emphasis on ethnic, political, and artistic aspects. Three credits each semester.

**German 221, 222**—*Survey of German Literature and Civilization.* (S)
Prerequisite: German 151-152 or four units of high school German. A study of selected texts of the literary and cultural background of the German people. Three periods a week. Three credits each semester.

**THE PREREQUISITE FOR 300 AND 400 LEVEL COURSES IS SATISFACTORY COMPLETION OF GERMAN 221, 222, OR PERMISSION OF THE INSTRUCTOR.**

**German 301, 302**—*Advanced Grammar and Composition.* (D/E)
Required of majors. Three periods a week. Three credits each semester.

**German 321, 322**—*German Literature from the Earliest Times Through the Eighteenth Century.* (L)
Emphasis on the epic of the Middle Ages, the literature of the Baroque Period and the Age of Enlightenment. Three periods a week. Three credits each semester.

**German 371, 372**—*German Classicism and Romanticism.* (L)
Fall semester: literature of the classic movement; spring semester: literature of the romantic school. Three periods a week. Three credits each semester.

**German 373, 374**—*Nineteenth Century Literature.* (L)
Lectures, readings, and reports. Three periods a week. Three credits each semester.

**German 381, 382**—*Modern German Literature.* (L)
A study of representative works from 1890 to the present. Three periods a week. Three credits each semester.

**German 395, 396**—*German Literature in Translation.* (L)
Taught in English. Not accepted for competence in foreign language, but may count as area requirement. Three credits each semester.

**German 411, 412**—*Advanced German Conversation.* (D/E)
Required of majors unless excused after examination by the department. Two periods a week. One credit each semester.

**German 471, 472**—*Goethe's Faust.* (L)
A thorough study and interpretation of this great masterpiece and its background. Three periods a week. Three credits each semester.

**German 491, 492**—*Independent Study.*
Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

**German for Graduate Reading Examinations.**
An intensive non-credit course in reading German offered to individuals working on graduate degrees. It is designed to prepare the individual for foreign language examinations given to fulfill requirements toward a Masters or Ph.D. degree.

## Italian

**Italian 101-102**—*Beginning Italian.* (D/E)
For students who enter college with fewer than two units of high school Italian. Fundamentals of grammar and pronunciation; reading and conversation. Five periods a week, two in the laboratory. Six credits.

**Italian 151-152**—*Intermediate Italian.* (D/E)
Prerequisite: Italian 101-102 or two units of high school Italian. A review of grammatical principles; readings of selected texts, collateral reading. Three periods a week. Six credits.

**Italian 201**—*Studies in Language I.* (D/E)
Grammar and composition. Open to students who have completed four years of high school Italian or Italian 151-152. Three periods a week. One semester. Three credits.

**Italian 211, 212**—*Italian Conversation.* (D/E)
Prerequisite: Italian 151-152 or two years of high school Italian. Two periods a week. One credit each semster.

**Italian 221, 222**—*Modern Italian Literature.* (L)
Prerequisite: Italian 151-152 or four units of high school Italian. A study based on Italian texts of the late nineteenth and twentieth centuries. Three periods a week. Three credits each semester.

**Italian 271, 272**—*Nineteenth Century Literature.* (L)
Readings from Italian literature with emphasis on the novel and drama of the nineteenth century. Three periods a week. Three credits each semester.

**Italian 295, 296**—*Dante and the Great Masterpieces of the Italian Renaissance in Translation.* (L)
A study of Dante's *Divine Comedy* and the early Italian poets. Three great literary Renaissance masterpieces in the spring. This course will be given in English. Three periods a week. Three credits each semester.

**Italian 321, 322**—*Literature and Civilization.* (L)
A study based on Italian texts of the literary and cultural history of the Italian people. Three periods a week. Three credits each semester.

**Italian 431, 432+**—*Dante.* (L)
A study of Dante's *Divine Comedy* and the early Italian poets. Three periods a week. Three credits each semester.

**Italian 491, 492**—*Independent Study.*
Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

## Japanese

**Japanese 101-102**—*Beginning Japanese.* (D/E)
For students beginning the study of Japanese. Five periods a week, one of which is scheduled in the laboratory. Six credits.

**Japanese 151-152**—*Intermediate Japanese.* (D/E)
Prerequisite: Japanese 101-102. Four periods a week. Six credits.

## Portuguese

**Portuguese 101-102**—*Beginning Portuguese.* (D/E)
For students who enter college with fewer than two units in high school Portuguese. Grammar and readings; conversation based on Brazilian pronunciation. Five periods a week, two of them in the laboratory. Six credits. To be offered on demand.

**Portuguese 151-152**—*Intermediate Portuguese.* (D/E)
Prerequisite: Portuguese 101-102 or two to three units in high school Portuguese. A brief review of grammar; reading and discussion of modern Brazilian literature, conversation. Three periods a week. Six credits. To be offered on demand.

**Portuguese 491, 492**—*Independent Study.*
Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

## Russian

**Russian 101-102**—*Beginning Russian.* (D/E)
For students who enter college with fewer than two units in Russian. The basic vocabulary and fundamental grammatical structure of the language; practice in conversation and reading of easy Russian texts. Five periods a week, two of them in the laboratory. Six credits.

**Russian 151-152**—*Intermediate Russian.* (D/E)
Prerequisite: Russian 101-102 or equivalent. Thorough review of grammar; reading of selected texts from modern prose writers; and conversation on topics of current interest. Three periods a week. Six credits.

**Russian 211, 212**—*Russian Conversation.* (D/E)
Prerequisite: Russian 101-102 or equivalent. Two periods a week. One credit each semester. (On sufficient demand only.)

**Russian 221, 222**—*Introduction to Russian Literature and Civilization.* (L)
Prerequisite: Russian 151-152 or equivalent. Readings and discussion of excerpts and short works with emphasis on nineteenth century literary masters and their times. Three periods a week. Three credits each semester.

**Russian 381, 382**—*Soviet Russian Literature.* (L)
Prerequisite: Russian 151, 152 or equivalent. Reading and analysis of representative works by Soviet Russian writers such as Gor'kii,

Sholokhov, Maiakosvkii, Leonov, Fadeev, Pasternak, and others. Three periods a week. Three credits each semester.

**Russian 391, 392**—*Independent Study.*
Individual study under the direction of a member of the staff. Three credits a semester for not more than two semesters. (By permission of the department.)

**Russian 395**—*Russian Literature in English Translation—Nineteenth Century.* (L)
No knowledge of Russian required. Not accepted for competence in foreign language. Core course for Russian Studies major. Readings, discussions, and lectures with emphasis on nineteenth century writers—Pushkin, Lermontov, Gogol', Turgenev, Dostoevskii, Tolstoi, and others. Three periods a week. Three credits.

**Russian 396**—*Russian Literature in English Translation—Twentieth Century.*
No knowledge of Russian required. Will not fulfill the language requirement. Core course for Russian Studies major. Readings, discussions, and lectures with emphasis on twentieth century writers—Gor'kii, Blok, Bulgakov, Zamiatin, Sholokhov, Leonov, Fadeev, Pasternak, Evtushenko, Sozlhenitsyn, and others. Three periods a week. Three credits.

## Spanish

Students who choose a major program in Spanish must take 38 credits in Spanish and related subjects. These credits are to be arranged by the student, adviser, and the department.

**Spanish 101-102**—*Beginning Spanish.* (D)/E
For students who enter college with fewer than two units of high school Spanish. Five hours a week, two of them in the laboratory. Six credits.

**Spanish 151-152**—*Intermediate Spanish.* (D/E)
Prerequisite: Spanish 101-102 or two or three units of high school Spanish. Conversation and composition; varied readings; review of grammatical principles; practice in the language laboratory. Three periods a week. Six credits.

**PREREQUISITES FOR THE FOLLOWING COURSES ARE SATISFACTORY COMPLETION OF SPANISH 151-152, FOUR YEARS OF HIGH SCHOOL SPANISH OR PERMISSION OF THE INSTRUCTOR.**

**Spanish 201**—*Studies in Language I.* (D/E)
Grammar and composition. Recommended for majors. Open to students who have completed four years of high school Spanish or Spanish 151-152. Three periods a week.

**Spanish 211, 212**—*Spanish Conversation.* (D/E)
A course offered especially for majors or those living in the Spanish House, but open to others with the permission of the instructor. Two periods a week. One credit each semester.

**Spanish 221, 222**—*Introduction to Spanish Literature.* (L)
Readings from the work of great writers of various periods. Three periods a week. Three credits each semester.

**Spanish 223, 224**—*Introduction to Spanish-American Literature.* (L)
Selected readings from the works of great writers of various periods. Three periods a week. Three credits each semester.

**Spanish 301, 302**—*Studies in Language II.* (D/E)
Advanced composition and grammar. Required of majors. Three periods a week. Three credits each semester.

**Spanish 315**—*Spanish Civilization.* (S)
A survey of Spanish history and institutions, with attention devoted to ethnic, political, and artistic aspects. Three periods a week. Three credits.

**Spanish 316**—*Spanish American Civilization.* (S)
A survey of Spanish American history and institutions. Three periods a week. Three credits.

**Spanish 321, 322**—*Survey of Spanish Literature.* (L)
Open to Spanish majors and to certain other students who have demonstrated unusual ability in the language. Lectures, reports, and selections from representative writers. Three periods a week. Three credits each semester.

**Spanish 323**—*Spanish American Literature of the Seventeenth and Eighteenth centuries.* (L)
Three periods a week. Three credits.

**Spanish 325**—*Poetry of Spain.* (L)
Three periods a week. Three credits.

**Spanish 331**—*Literature of the Middle Ages, and The Renaissance.* (L)
Three periods a week. Three credits.

**Spanish 341**—*Spanish American Literature of the Period of the Conquest.* (L)
Three periods a week. Three credits.

**Spanish 351, 352+**—*Drama and Poetry of the Golden Age in Spain.*
Three periods a week. Three credits each semester. (L)

**Spanish 362**—*Spanish Literature of the Eighteenth Century.* (L)
Three periods a week. Three credits.

**Spanish 371**—*Nineteenth Century Romanticism.* (L)
Three periods a week. Three credits.

**Spanish 372**—*Post-Romantic Drama and Poetry.* (L)
Three periods a week. Three credits.

**Spanish 373, 374**—*The Novel of the Nineteenth Century.* (L)
Three periods a week. Three credits each semester.

**Spanish 375, 376+**—*Nineteenth Century Literature in Spanish America.* (L)
Three periods a week. Three credits each semester.

**Spanish 395, 396**—*Spanish Literature in Translation.* (L)
Great works in English translation taught in English. Not to be credited toward a Spanish major, but may count as meeting area requirement in literature or as elective. Three periods a week. Three credits each semester.

**Spanish 397, 398**—*Spanish American Literature in Translation.* (L)
Great works in English translation taught in English. Not to be credited toward a Spanish major, but counts toward a Latin American Studies major, and meets area requirement in literature. Three periods a week. Three credits each semester.

**Spanish 411, 412**—*Advanced Conversation.* (D/E)
Required of majors unless excused after examination by the department. Two periods a week. One credit each semester.

**Spanish 421, 422**—*Readings in Spanish.* (L)
Open to seniors with permission of the department. Three periods a week. Three credits each semester.

**Spanish 451, 452+**—*The Novel of the Golden Age in Spain.* (L)
Three periods a week. Three credits each semester.

**Spanish 481**—*The Drama of the Twentieth Century.*
Three periods a week. Three credits.

**Spanish 482**—*Poetry of the Twentieth Century.* (L)
Three periods a week. Three credits.

**Spanish 483, 484+**—*Twentieth Century Prose.* (L)
Three periods a week. Three credits each semester.

**Spanish 485, 486**—*Twentieth Century Literature of Spanish America.* (L)
Three periods a week. Three credits each semester.

**Spanish 491, 492**—*Independent Study.*
Individual study under the direction of a member of the staff. Three credits each semester for not more than two semesters. (By permission of the department.)

**MUSIC**/ *Associate Professor* Anne F. Hamer, Chairman; *Professor* Bulley;* *Associate Professors* Baker, Chauncey, L. Houston, Lemoine; *Instructors* Chalifoux, M. Fickett, Matthias, Reinburg, Sabine.

The Department of Music offers a major program in music as well as courses that can be chosen as electives by students whose primary interests are in other fields.

The Department of Music is a member of the National Association of Schools of Music.

A major program requires that a student pass a preliminary audition and basic test, earn a minimum of 36 credits in music, demonstrate functional proficiency in piano, and acquire the ability to perform well in some area of applied music.** Twenty-four credits must be taken in the following courses:

Music 181, 182, Harmony and Ear Training . . . 6 credits
Music 281, 282, Advanced Harmony and Ear Training . . . . . 6 credits
Music 305, 306, History of Music . . . . . 4 credits
Music 391-392, Counterpoint . . . . . 4 credits
Music 491-492, Form and Analysis . . . . . 4 credits

Students interested in majoring in music should take Music 181-182 in the freshman year.

* Retired at end of first semester, 1972-73.

**No fees for applied music.

*Twelve additional credits are to be taken in courses selected from the following:*

*Music 111, 112, Survey of Music*
*Music 291, History of Musical Instruments*
*Music 292, Introduction to Electronic Music*
*Music 315, Twentieth Century Music*
*Music 321, Choral Conducting*
*Music 322, Instrumental Conducting*
*Music 395, 396, Orchestration*
*Music 175, 176, 275, 276, Band and Orchestra Instruments*
*Music 406, Choral Music*
*Music 415, 416, Opera*
*Music 493, 494, Independent Study*
*Music 495, 496, Composition*
*Applied Music*

It is also possible for students to take courses in music in addition to those required by the major program. These courses may be considered as electives in fulfilling degree requirements. However, each student majoring in music should plan his work in consultation with a departmental adviser.

Music majors wishing to qualify for a Virginia teaching certificate should consult the chairman of the Department of Music and the chairman of the Department of Education to make certain that they take all the necessary courses. In addition, they should plan for 18 semester hours in performance instruction. This includes courses in conducting, instrumental classes, participation in chorus band, or other regular ensemble groups, and individual instruction in applied music.

## Theory of Music

**Music 181, 182**—*Harmony and Ear Training.* (H)
Fundamentals of music chord-structure and progressions. Figured bass and given melodies, dominant sevenths. Original work. Melodic, rhythmic, and harmonic dictation, sight-singing and keyboard harmony. Five periods a week. Three credits each semester.

**Music 281, 282** —*Advanced Harmony and Ear Training.* (H)
Prerequisite: Music 181-182. Advanced harmony and its use in traditional musical styles. Modulation, complete dominant harmony, altered chords, and enharmonic relationships. Harmonic analysis. Keyboard and ear training skills. Five periods a week. Three credits each semester.

**Music 285, 286+**—*Instrumental Sight Reading.* (H)
Class designed to increase sight-reading ability by means of both playing and following the printed score. Also a retainer course for those who wish to keep up their instrumental technique, whether they are currently studying or not. Enrollment by permission of instructor. One period a week. No credit.

**Music 301, 302; 311, 312+**—*School Music.* (D/E)
Essentials of school music materials and procedures involved in teaching songs, rhythmic and instrumental work, and listening. Coordination with other subjects. Course 301, 302 (two hours a week. One credit each semester) is for non-music majors expecting to teach in the elementary grades. Course 311, 312 (three hours a week; three credits each semester) is for non music majors who expect to teach music in elementary or secondary schools.

**Music 321**—*Choral Conducting.* (H)
Principles and techniques of conducting, including the study of materials, arranging, and program planning. Two periods a week for the first semester. Two credits.

**Music 322**—*Instrumental Conducting.* (H)
Principles and techniques of conducting, including the study of materials, arranging, and program planning. Two periods a week for the second semester. Two credits.

**Music 391, 392**—*Counterpoint.* (H)
Prerequisite or co-requisite: Music 281-282. Elementary contrapuntal techniques, including double counterpoint at the octave. Two periods a week. Two credits each semester.

**Music 395, 396**—*Orchestration.* (H)
Techniques of instrumental scoring considered historically and creatively. Two periods a week. Two credits each semester.

**Music 491-492**—*Form and Analysis.*
Prerequisite or co-requisite: Music 281, 282. Structural and harmonic analysis of both large and small forms of composition. Two periods a week. Two credits each semester.

**Music 495, 496**—*Composition.*
Prerequisite or co-requisite: Music 281, 282. Creative work in smaller forms. Correlative study of traditional and contemporary compositional practices. Two periods a week. Two credits each semester.

## History and Literature of Music

**Music 111, 112+**—*Survey of Music.* (H)
General survey of music and its relationship to general culture and history. Three periods a week. Three credits each semester.

**Music 291**—*The History of Musical Instruments.* (H)
A study of the evolution of musical instruments in western culture from antiquity through the present day with emphasis on performance practices of the times and their relationships to the symphony orchestra. Two periods per week. Two credits.

**Music 292**—*Introduction to Electronic Music.*
Prerequisite: Special permission of the instructor. The study of electronic music with emphasis on its historical development, current status, physical concepts, language and compositional techniques as they apply to synthesized music. Two class periods and one laboratory period a week. Three credits. Offered each semester.

**Music 305, 306+**—*History of Music.* (H)
Study of the development of music from ancient to modern times with special correlation of historical and cultural trends. Two periods a week. Two credits each semester.

**Music 315**—*Twentieth Century Music.* (H)
Prerequisite: Music 111, 112 or Music 305, 306 or permission of the instructor. The study of twentieth century practices in musical composition and their relationships to the historical developments in music. Three periods a week. Two credits. Offered each semester.

**Music 406**—*Choral Music.* (H)
Study of sacred and secular choral literature, including both the vocal and interpretative aspects. Consideration of textual as well as musical content. Two periods a week. Two credits.

**Music 415, 416+**—*Opera.* (H)
Literary and musical development of the opera; staging and scenic devices. Comparison of operatic styles through study and listening. Two periods a week. Two credits each semester. (Offered in alternate years. Offered in 1973-74.)

**Music 493, 494+**—*Independent Study.* (H)
Individual study under the direction of a member of the music department faculty. From two to six credits. (By permission of the department.)

## Band and Orchestra Instruments

**Music 175, 176**—*Beginning String Instruments.* (H)
Class study of playing techniques on string instruments, including reference to their historical development and literature. Two periods a week. One credit each semester.

**Music 275**—*Beginning Woodwind and Percussion Instruments.* (H)
Class study of playing techniques on woodwind instruments and on snare drum, including reference to their historical development and literature. Two periods a week, first semester. One credit.

**Music 276**—*Beginning Brass and Percussion Instruments.* (H)
Class study of playing techniques on brass instruments and on percussion instruments, including reference to their historical development and literature. Two periods a week, second semester. One credit.

## Band, Chorus, and Instrumental Ensemble

The College maintains a concert band (01), chorus (02), and string ensemble. Any student may, with the permission of the conductor, participate in the band, chorus, or ensemble, but will be allowed a combined maximum of six credits in ensemble participation. However, band, chorus, or ensemble may be taken without credit. Each organization has two rehearsals a week and gives one credit each semester.

### Individual Instruction in Music

Individual lessons in voice, piano, organ, violoncello, harp, brass and woodwinds are offered by the department.

Credit is allowed for a maximum of 12 semester hours in individual instruction.

For study in these instruments one credit is allowed for one half-hour lesson a week plus one hour of practice daily; two credits are allowed for one one-hour lesson or two half-hour lessons a week plus two hours of practice daily.

Instructors in individual instruments are: Mrs. Anne Hamer, violoncello and piano; Mr. Edwin Matthias and Mrs. Yvonne Sabine, voice; Mrs. Peggy Reinburg, organ; Mrs. Martha Fickett, Mr. Levin Houston, and Mr. Bernard Lemoine, piano; Mr. James Baker, woodwinds and brass; and Miss Jeanne Chalifoux, harp.

**PHILOSOPHY**/ *Professor* George M. Van Sant, Chairman*; *Professor* Leidecker,* *Assistant Professors* Bonyhard,** Snyder

Students who choose a major program in philosophy must complete 24 credits in philosophy in addition to any course(s) taken to meet Basic Degree Requirements. Students must also complete 12 credits in related subjects. These subjects are to be selected in consultation with the student's adviser. Any 300 or 400 level courses in appropriate departments are acceptable. In certain cases, e.g. Religion 201 and 202, 200 level courses may be approved. Students concentrating in other subject areas are encouraged to consider philosophy as a second or double major, thereby achieving depth and variety in their college work.

Majors in philosophy are expected to include at least four of the five following courses comprising the history of philosophy: Philosophy 321, 322, 371, 372, 373. In addition, majors are strongly encouraged to include at least one logic course in their program.

A program of Independent Study (tutorial) is offered to any qualified student upon approval by the department. This may be specialization in the work of a single philosopher or an investigation of a specific philosophical problem. Highly qualified majors are encouraged to consider reading for Honors in philosophy.

**Philosophy 105**—*Introduction to Philosophy: Morals and Society.* (H) An introductory survey of both classical and modern ethical systems. The importance of critical thinking about moral and social issues is stressed. Three periods a week. Three credits.

* First semester, 1972-73.
**On leave of absence, first semester, 1972-73.

**Philosophy 107**—*Introduction to Philosophy: Knowledge and Reality.* (H)
An introductory survey of philosophical positions concerning man's knowledge and the different metaphysical views which have been taken of the nature of the universe and man's position in the universe. Three periods a week. Three credits.

**Philosophy 109**—*Introduction to Philosophy: Language and Logic.*(H)
The elementary principles of valid reasoning to introduce the arts and sciences student to logic and language, elementary symbolic logic and simple deductive system. Three periods a week. Three credits.

**Philosophy 211**—*Ethical Studies.* (H)
A study of the status and justification of moral judgments, the nature of disagreements in moral issues, and contemporary examinations of the language used in ethical theories. Three periods a week. Three credits.

**Philosophy 212**—*Aesthetics.* (H)
An examination of a variety of attempts to validate norms of taste and of criticism. Attention is given to problems specific to particular art forms, as well as to the more general theories about the nature of art and of responses to it. Three periods a week. First semester. Three credits.

**Philosophy 244**—*Philosophy of Science.* (H)
A survey of modern philosophical writing about scientific presuppositions, about the methods and language of scientists, and about the impact of science on other philosophical problems. Three periods a week. Three credits.

**Philosophy 304**—*American Philosophy.* (H)
A study of philosophical ideas in America. Special emphasis is given to pragmatism. Three periods a week. Three credits.

**Philosophy 306**— *Advanced Logic.* (H)
Theory of formal systems; applied criteria of consistency, completeness and decisional procedures. The development of quantification theory. Godel's proof, approaches to the justification of logic, and other topics in symbolic logic. Prerequisite: Philosophy 109 or completion of six hours in mathematics. Three periods a week. Three credits.

**Philosophy 321**—*Greek Philosophy.* (H)
A study primarily of selected works of Plato and Aristotle with special attention given to the origin and development of epistemological and metaphysical problems. Three periods a week. First semester. Three credits.

**Philosophy 322**—*Medieval Philosophy.* (H)
A survey of scholastic philosophy. Special consideration is given to the works of Augustine, Thomas Aquinas and William of Ockham. Three periods a week. Second semester. Three credits.

**Philosophy 343**—*Existentialism and Phenomenology.* (H)
A study of recent philosophical developments in the continental European tradition. Includes such writers as Kierkegaard, Nietzsche, Heidegger, Marcel, Merleau-Ponty, Jaspers, and Sartre. Three periods a week. Three credits.

**Philosophy 344**—*History of Scientific Thought.* (H)
A study of the classics in the development of scientific thinking. Special attention is given to the significant discoveries, the methods and the presuppositions which have characterized the different phases of the development of science. Prerequisite: Eight semester hours of laboratory science. Three periods a week. Second semester. Three credits.

**Philosophy 361**—*Metaphysics.* (H)
A study of problems such as being, reality, space, time, causality, chance, freedom, and identity that are basic to an intellectual comprehension of the universe and the processes of mind and nature. Three periods a week. Three credits. (Offered in alternate years. Not offered in 1973-74.)

**Philosophy 371**—*Seventeenth and Eighteenth Century Philosophy.*(H)
A survey of major thinkers from Descartes to Hume, with particular emphasis on the relation and contributions of these thinkers to contemporary thought. Three periods a week. Three credits.

**Philosophy 372**—*Kant.* (H)
A systematic study of selected major works of Immanuel Kant. The impact of Kant's thought on subsequent philosophical views is emphasized. Three periods a week. Three credits.

**Philosophy 373**—*Nineteenth and Twentieth Century Philosophy.* (H)
A critical consideration of major thinkers and movements from Hegel to the present. Three periods a week. Three credits.

**Philosophy 420**—*Contemporary Epistemology.* (H)
An examination of contemporary approaches to and problems about the nature of knowledge. Topics will include perception, meaning, the analytic-synthetic distinction, ontological commitment, etc. Three periods a week. Three credits.

**Philosophy 421**—*Symbolism.* (H)
A course dealing with the philosophic basis of symbol formation as a universal category. Origin, function and value of symbol and metaphor are traced in diverse cultures, from primitive to Oriental and Western, and in as many fields as possible, from meta-psychology, religious iconography, myth construction and art to the humanistic disciplines, literature and system building in metaphysics. Three periods a week. First semester. Three credits. (Offered in alternate years. Not offered in 1973-74.)

**Philosophy 490**—*Readings in Philosophy.* (H)
Open to all philosophy majors and otherwise qualified students of junior and senior status who desire to become more familiar with the philosophical literature in a field previously selected by the Department of Philosophy after consultation with students. Emphasis is upon intensive reading, with group discussion of the selections read. Three periods a week. Three credits.

**Philosophy 491, 492**—*Independent Study.* (H)
Tutorial under the direction of a member of the staff. Three to six credits (by permission of the department).

**PHYSICS**/ *Associate Professor* Bulent I. Atalay,* Chairman; *Associate Professor* Nikolic, Acting Chairman; *Assistant Professor* Nath; *Instructor* Pitts.

A major program in physics requires 24 credits in physics beyond the general physics course, including Physics 251-252 and 391-392. Six credits must be taken in Mathematics 121, 221, or 231.

**Physics 101, 102**—*General Physics*. (N/M)
An introductory course in general physics, for non-science oriented students, stressing conceptual rather than mathematical aspects. Three single and one double period a week. Four credits each semester.

**Physics 151, 152**—*General Physics*. (N/M)
Corequisite: Mathematics 221 or equivalent. Three periods and one double period a week. Four credits each semester.

**Physics 153, 154**—*Physics Problems.* (N/M)
Recitation section for Physics 151-152. One period a week. One credit each semester.

**Physics 211**—*Modern Physics I: Atomic Physics.* (N/M)
Foundations of quantum mechanics, atoms with one electron, multielectron atoms, molecules, solids. First semester. Four credits.

**Physics 212**—*Modern Physics II: Nuclear Physics.* (N/M)
Nuclear structure, static and dynamic properties; and fundamental particles. Second semester. Four credits.

**Physics 251**—*Classical Mechanics I.* (N/M)
Prerequisite: Physics 102 or 152 or equivalent; and Mathematics 212. Kinematics and dynamics of a mass particle, conservation laws, central forces, generalized coordinates, Lagrange and Hamiltonian methods. First semester. Three credits.

**Physics 252**—*Classical Mechanics II.* (N/M)
Prerequisite: Physics 251 or equivalent. Kinematics and dynamics of a rigid body, Hamilton's equations of motion, small oscillations, special theory of relativity. Three periods a week. Second semester. Three credits.

*On leave of absence, 1972-73.

**Physics 391, 392**—*Electricity and Magnetism.* (N/M)
Prerequisite: Mathematics 221, Physics 152 or 252. A survey of the foundations of electromagnetic theory; including electrostatics, electromagnetic properties of matter, electric current analysis, electromagnetic induction, Maxwell's equations, special theory of relativity and elementary circuit theory (AC and DC). Emphasis will be on lectures and limited laboratory demonstrations. Three periods a week. Three credits each semester.

**Physics 393**—*Optics.* (N/M)
Prerequisite: Mathematics 221. An introduction to the theory of physical optics (Huygen's wave model of light) as applied to interference, diffraction, polarization, phase and group velocity of light. Course includes both lectures and a laboratory based on the observation and interpretation of basic optical effects. Three periods and one laboratory per week. First semester. Three credits.

**Physics 394**—*Electronics.* (N/M)
Prerequisite: Physics 391. An introduction to the theory and operation of electronic instruments and basic circuits. The course will include a discussion of electrical measurements and measuring instruments, and basic circuit analysis (power supplies, amplifiers, oscillators, switching and timing circuits) using both vacuum tubes and transistors. Limited lectures with emphasis on laboratory work. Second semester. Three credits.

**Physics 401, 402**—*Methods of Theoretical Physics.* (N/M)
Prerequisite: Mathematics 221. Vectors and matrices, coordinates, functions of a complex variable, differential equations and application, Fourier and Laplace transformations, special functions in physics, finite and infinite dimensional vector spaces, variational methods, tensors, group theory. Three periods a week. Three credits each semester.

**Physics 451**—*Thermal Physics I: Thermodynamics.* (N/M)
Prerequisite: Mathematics 221. Temperature, thermodynamic states and variables, the laws of thermodynamics, entropy, thermodynamic potentials, change of phase. Three periods a week. Three credits.

**PSYCHOLOGY** / *Associate Professor* Roy B. Weinstock, Chairman; *Visiting Professor* Shipstone; *Associate Professors* M.A.K. Kelly, Rabson; *Assistant Professors* Bill, Bresler, Butzine, Gushurst, MacEwen, Mery, R. Smith.

A major program in psychology requires 36 credits in psychology and related fields of study. Of the 36 required credits, 24 must be earned in courses in psychology other

than Psychology 201, 202. Statistics (either Psychology 261 or 262), History of Psychology, and one semester of Experimental Psychology or Physiological Psychology are required courses for all psychology majors. Twelve hours from affiliated areas of study or in advanced courses in psychology should be selected by the student in consultation with his departmental adviser.

**Psychology 201 is a prerequisite for Psychology 202. Psychology 201 and Psychology 202 are prerequisites for all 300 level and 400 level psychology courses.**

**Psychology 201, 202**—*General Psychology.* (S)
Fundamental principles of human behavior; biological antecedents; motivation; perception; learning; individual differences; intelligence; and personality. Three credits each semester. Not open to freshmen.

**Psychology 261**—*Elementary Statistics.* (S)
A consideration of descriptive and inferential statistics. Such topics as central tendency, variability, probability, correlation techniques, chi-square, and t-tests will be covered. Credit will not be allowed if Psychology 262 has already been, or is taken concurrently. Three credits.

**Psychology 262**—*Intermediate Statistics.* (S)
In-depth coverage of data analysis techniques and inferential tests, such as simple analysis of variance, curve fitting, and Bayesian statistics. This course is independent of Psychology 261, and is self-contained. Three credits.

**Psychology 301**—*Social Psychology.* (S)
The interrelationships between the individual and his social environment. Social influences upon motivation, perception, and behavior. The development of change of attitudes and opinions. Psychological analysis of small groups, social stratification, and mass phenomena. Three credits.

**Psychology 307**—*Computer Applications in the Social Sciences.* (S)
Prerequisite: An undergraduate course in statistics. In addition to a consideration of elementary computer programming concepts, some of the following topics will be examined: linear and curvilinear regression, automatic graphing, artificial intelligence, computer simulation of dynamic processes, factor analysis, and nonmetric multidimensional scaling. Three credits.

**Psychology 311**—*Abnormal Psychology.* (S)
Abnormalities of sensation, perception, memory, thinking, emotion, intelligence, motor activity, and personality; study of neurotic and psychotic syndromes. Three credits.

**Psychology 331**—*Developmental Psychology: The Infant and Child.* (S)
The study of human development from conception through childhood. Emotional, intellectual, social, and physical growth will be examined. Special attention will be focused on current research and theories. Three credits.

**Psychology 332**—*Developmental Psychology: The Adolescent and Adult.* (S)
The study of human development from adolescence through old age. There will be special emphasis on adolescent changes in personality, intellectual capacities, physical characteristics, and life goals. Current research and theories on adolescence, adult behavior, and aging will be considered. Three credits.

**Psychology 342**—*Psychology of Personality.* (S)
A study of personality structure, dynamics, development, and methods of research. Three credits.

**Psychology 345**—*Psychology of Learning.* (S)
An analysis of the theoretical issues and/or experimental bases of learning. Both human and infrahuman research will be considered. Three credits.

**Psychology 362**—*Psychology of Exceptional Children.* (S)
A study of exceptional children: the physically handicapped; the mentally retarded; the mentally gifted; and the emotionally deviate. A survey of current attempts to provide programs to meet the specialized needs of such children. Three credits.

**Psychology 371**—*Experimental Psychology: Operant Conditioning.* (S)
Prerequisite: Psychology 261 or 262. An analysis of behavior utilizing the principles and procedures of operant conditioning. Laboratory work concentrated on the rat. Three lectures and one two-hour laboratory period a week. Four credits.

**Psychology 372**—*Experimental Psychology: Sensation and Perception.* (S)
Prerequisite: Psychology 261 or 262. Visual and auditory sensation is examined using basic psychophysical methods. Fundamental perceptual phenomena are analyzed. Scaling techniques are presented. Three lectures and one two-hour laboratory period a week. Four credits.

**Psychology 373**—*Experimental Psychology: Human Learning.* (S)
Prerequisite: Psychology 261 or 262. An examination of method, data, and theory in human learning and memory research. Three lectures and one two-hour laboratory period a week. Four credits.

**Psychology 392**—*Behavior Genetics.* (S)
Prerequisite: One year of biology and one year of psychology. The relationship between heredity and behavior of organisms including man; an examination of the relations between mechanisms of genetic transmission and gene action, population structure and evolution, and individual behavior differences. Three credits.

**Psychology 401**—*Psychological Tests and Measurements.* (S)
Prerequisite: Psychology 261 or 262. Theory of test construction; development, interpretation, and uses of tests of general and special abilities. Laboratory work illustrates the problems associated with testing and techniques of handling data. Three lectures and one two-hour laboratory period a week. Four credits.

**Psychology 421**—*History of Psychology.*
A survey of the historical antecedents of modern psychology. Three credits.

(S)

**Psychology 432**—*Comparative Psychology.*
The study of animal behavior emphasizing sensory and motor capabilities, ecological factors, and systematic variation across phygenetic levels. Naturalistic observation techniques for the study of animals (and man). Three credits.

**Psychology 446**—*Physiological Psychology.* (S)
A critical survey of the physiological correlates of behavior with special emphasis on neurophysiological mechanisms, psychopharmacology, neuroendocrine functions, motivations, learning, and conditioning. Laboratory work stresses the methods of physiological investigation. Three lectures and one two-hour laboratory period a week. Four credits.

**Psychology 451**—*Psychology of Motivation.* (S)
The study of the origins and development of motivating forces and their effects on behavior. Theory and/or experimental data will be considered. Three credits.

**Psychology 470, 471, 472, 473, 474**—*Selected Topics in Psychology.*
(S)

A study of enduring and/or contemporary issues in psychology. Three credits.

**Psychology 491**—*Individual Research.* (S)
The problem(s) to be investigated will be determined by individual interest(s). Each student will be responsible for library research and/or empirical investigation. One to four credits per semester will be allowed, depending upon the quantity of work planned. A maximum of eight credit hours will be allowed toward fulfilling the major field requirement. By permission of a staff member.

## The Honors Program in Psychology

A student may graduate with Honors in Psychology by meeting one of the following sets of criteria. Set B. is optional for 1973 graduates, but is mandatory for students who plan to graduate in 1974 and thereafter.

*A.*

1. An overall gradepoint average of 3.0 and a gradepoint average of 3.3 in psychology must be attained at the end of seven semesters' work.
2. The student must complete, with a minimum grade of B, at least three credits in a course in Individual Research in Psychology. This may be taken in the student's junior year if the instructor feels that the student is sufficiently prepared to execute adequately a research project.
3. The student must be at or above the 90th percentile on the psychology field test of the Graduate Record Examination.

*B.*

1. An overall gradepoint average of 3.0 and a gradepoint average of 3.25 in psychology must be attained at the end of seven semesters' work.
2. Readings with three different psychology staff members in three different areas which will be selected by the student's adviser and the department chairman. Readings can begin no earlier than the second semester of the student's junior year, and initiated no later than the first semester of the student's senior year. Each staff member involved will formally assess the student's performance at the end of the

Readings course. A minimum grade of B must be earned. Three credits taken in Psychology 491.

3. Independent Research (library or empirical) on a problem of interest to the student. Thesis required. A minimum grade of B must be earned. Three credits taken in Psychology.

4. Oral defense of Independent Research project with Psychology staff invited.

**RELIGION**/*Associate Professor* Elizabeth A. Clark, Chairman; *Assistant Professors* Cain, Jensen.

A student majoring in religion must take at least 24 credits in religion courses (12 of which must be numbered 300 or higher) and 12 credits in related fields (all of which must be worked out in consultation with an adviser). A six credit seminar consisting of a year's work of readings and discussion culminating in the completion of a senior paper is required of all majors.

At the beginning of the second semester of the senior year, a major is required to pass a written examination in the field of religion which he has prepared for through introductory course work and private study. A make-up examination is offered when necessary.

A distinguished performance on the written examination and senior paper, in addition to a high grade average in religion course work, entitles a major to be graduated with Honors in Religion.

**Religion 105**—*Introduction to Religion.* (H)
An introduction to some basic traditions and structures of religion and to the problems of interpreting religious experiences and expressions. Some of the themes to be examined include myths, rituals, types of religious communities. Three credits.

**Religion 117**—*Introduction to Christian Theology.*
This course is designed to provide an initial confrontation with basic terms and concepts (*e.g.*, "grace," "kenosis," "revelation," "resurrection," "eschatology"), doctrines (creation, fall reconcilia-

tion, redemption) and methods in Christian theology. Readings are selected for vividness and clarity and come from a host of Christian thinkers, past and present. Three credits.

**Religion 201, 202+**—*The Western Religious Heritage.* (H)
An examination of the historical and theological development of Judaism and of Christianity (primitive, Roman Catholic, and Protestant). Three credits each semester.

**Religion 205**—*Biblical Literature: The Hebrew Bible.* (H)
A study of the history, literature and religion of ancient Israel. Three credits.

**Religion 206**—*Biblical Literature: The New Testament.* (H)
A critical study of the origins and theological motifs of New Testament literature as well as an introduction to the methodology and implications of historical-critical scholarship. Three credits.

**Religion 213, 214+**—*Modern Religious Thinking.* (H)
An introduction to the diversity of issues and approaches in contemporary theological literature. The first semester considers the European discussion from Barth and Bultmann to Bonhoeffer, Fuchs, Ebeling, Pannenberg and Moltmann. The second semester deals with American contributions from the Niebuhrs to Vahanian, Van Buren, Cox, and Keen. Three credits each semester.

**Religion 217**—*Primitive Religions.*
A study of the religious traditions of pre-literate peoples, with particular emphasis on the interpretation of myths, rituals and symbols, and the role of religious specialists such as shamans and priests. Three credits.

**Religion 220**—*Studies in Suffering and Evil.* (H)
"If God is good, whence evil?" This course focuses on the problems of theodicy (the righteousness of God in relation to suffering and evil) in Jewish and the Christian traditions but also considers ways in which suffering and evil are understood in Hinduism, Buddhism and Islam. A wide range of readings: scriptural, theological, philosophical and literary. Three credits.

**Religion 271**—*Studies in Faith and Literature.* (L)
Consideration of aspects of Christian thought and literary criticism accompanies the reading of works by Albee, Bernanos, Camus, Dostoyevsky, Grass, Hesse, Jimenez, Lawrence, and others. Attention focuses on benefits and dangers of various ways of relating faith and literature. Three credits.

**Religion 281**—*Asian Religions I: The Religions of India.* (H)
The first half of a two-semester sequence examining the historical development and basic traditions of the major religions of Asia. Particular emphasis will be placed upon the distinctive kinds of religious communities in the traditions and certain writings pivotal to them. The religious traditions of the Indian subcontinent, including Islam, are examined. Three credits.

**Religion 282**—*Asian Religions II: China and Japan.* (H)
A study of the religious traditions of East Asia, including Buddhism. This is the second half of a two-semester sequence. Three credits.

**Religion 306**—*Early Christian Thought.* (H)
Studies of the theology of the early church with special attention given to the development of trinitarian and christological thought. Three credits.

**Religion 331**—*Studies in Historical Theology.* (H)
The intensive study of a particular problem, theologian, or historical era. First semester, 1973-74, The Protestant Reformation. Three credits.

**Religion 341**—*Seminar on Major Religious Thinkers.* (H)
This course will focus in depth on one major thinker of the Western religious tradition. A wide range of problems—theological, philosophical, historical, and aesthetic—will be discussed. Second semester, 1972-73, Soren Kierkegard. Three credits.

**Religion 401-402**—*Senior Seminar.* (H)
The first semester's study involves all senior majors and staff in readings and discussion. The second semester of the seminar will be devoted to the preparation of a senior paper under the guidance of a department member. Students other than senior majors who have sufficient course work in religion may register with permission of the department. Six credits.

**Religion 491, 492, 493, 494**—*Independent Study.* (H)
Individual work under the guidance of a member of the department. By permission of the department. Three credits a semester.

**SOCIOLOGY**/*Professor* L. C. Carter, Chairman; *Professors* Allen, Sletten; *Assistant Professor* Orlin; *Instructor* Ellis.

The major program in sociology requires 36 credits in sociology and related social sciences. Twenty-four of these required credits must be earned in sociology courses other than Sociology 201, 202. The 12 credit hours in related fields may be selected from other social sciences in consultation with the departmental adviser.

While students majoring in sociology are not required to take the following courses, a major program in sociology is seriously incomplete without Sociology 362, Methods of Social Research; Sociology 481, History of Social Theory; and Sociology 482, Contemporary Sociological Theory. In addition, the student is strongly urged to take at least one course in statistics, preferably Statistics 200.

**Sociology 201**—*Principles of Sociology.* (S)
A study of the basic characteristics of group life; status, role, society, and culture; and interaction between persons and groups. Three periods a week for the first semester. Three credits.

**Sociology 202**—*Social Problems.* (S)
Social change; deviance; social and personal disorganization; mobility; delinquency, crime; political, industrial and other group conflicts. Three periods a week for the second semester. Three credits.

**Sociology 301-302**—*Introduction to Anthropology.* (S)
First semester foci: history of anthropology, physical anthropology, and archaeology. Second semester foci: ethnology, ethnography, social anthropology, linguistics, technology, and primitive art. Three periods a week. Six credits.

**Sociology 303**—*Culture, Social Structure and Personality.* (S)
Prerequisite: six hours of sociology. Impact of culture and social structure upon the individual and of sociolocultural norms and values upon personal attitudes and behavior, with some focus upon behavior disorders. Three periods a week for the first semester. Three credits.

**Sociology 311**—*Population.* (S)
Analysis of historical and contemporary population composition and change, and relationship of demographic structure to economic, political, religious and kinship structures. Three periods a week for first semester. Three credits.

**Sociology 312**—*Migration.* (S)
Analysis of population movements, their causes, and effects. Foci: nineteenth and twentieth century migrations and how these are related to contemporary economic and industrial development. Three periods a week for the second semester. Three credits.

**Sociology 313**—*Urban Society.* (S)
Origin, character and significance of urban and metropolitan communities. Common problems of city living; ecological factors in growth of cities and their influence upon social behavior. Three periods a week for the second semester. Three credits.

**Sociology 314**—*Population Trends.* (S)
World population trends, with special emphasis upon developing nations. Areas for intensive treatment: the "population explosion," its causes and consequences. Impact of population changes on world events. Three periods a week for the first semester. Three credits.

**Sociology 315**—*Fertility.* (S)
An analysis of fertility patterns and differentials in human populations; social, economic, biological and demographic factors affecting family size; and relationships between fertility and economic and cultural development. Three credits.

**Sociology 331**—*The Family.* (S)
Prerequisite: Six hours of sociology or psychology. A historical, social-psychological and cultural study of sex behavior, mate selection, courtship, marriage and family relations. Three periods a week for the first semester. Three credits.

**Sociology 332, 333**—*Introduction to Social Welfare.* (S)
Prerequisite: Sociology 201, 202. First semester foci: historical backgrounds, philosophies, values, goals, and issues of human welfare concerns; and social welfare as a social institution. Second semester foci: social work as a profession; fields, methods, policies, and consequences of social action or inaction. Three periods a week. Three credits each semester.

**Sociology 334**—*Medical Sociology.* (S)
An examination of the nature of disease and health as related to social structure and culture; demographic correlates of incidence and prevalence of various diseases; a role analysis of the health professions; organization of medical practice; and organization and decision making in a hospital setting. (Prerequisite: Sociology 201, 202 or approval by Instructor.) Three periods a week for the second semester. Three credits.

**Sociology 341**—*American Society.* (S)
A study of some of the major aspects of American society. Topics dealt with include some attempts to study American society as a whole; the relations of men and women; the occupational system, the power system and bureaucracy; and the problems of leisure. Three credits. (Offered in alternate years; not offered in 1973-74.)

**Sociology 342**—*Occupations and Social Structure.* (S)
Analysis of major occupational roles; of relationships between occupation and kinship organization, as well as of social stratification, social philosophies, and political action. Three periods a week for the second semester. Three credits. (Offered in alternate years; not offered in 1973-74.)

**Sociology 351**—*Juvenile Delinquency.* (S)
Prerequisite: Six hours of sociology or psychology. A sociological analysis of the nature, extent, causes, impact and treatment of juvenile delinquency. Three periods a week for the first semester. Three credits.

**Sociology 352**—*Criminology.* (S)
Prerequisite: Six hours of sociology or psychology. Crime as a reflector of social pathology; its nature, variation, extent, and recent trends; causal theories, mythical and scientific; upper and underworld organization; programs of crime control, prevention, and treatment. Three periods a week for the second semester. Three credits.

**Sociology 362**—*Methods of Social Research.* (S)
Prerequisite: Six hours of sociology. Methods of investigating selected problems of current importance with emphasis upon individual work. Three periods a week for the first semester. Three credits.

**Sociology 402**—*Sociology of Human Development.* (S)
Prerequisite: Six hours of sociology or psychology. Analysis of microsocial structures and processes; socialization and its chief agents; and impact of social interaction with siblings, parents and peers. Age-grading and orientation to vertical social gradients. Three periods a week for the second semester. Three credits.

**Sociology 421**—*Human Relations.* (S)
Racial and ethnic groups in America; minority-group consciousness; marginal persons and groups; and inter-group tension, conflict, accommodation and cooperation. Three periods a week for the second semester. Three credits.

**Sociology 422**—*Sociology of Religion.* (S)
Prerequisite: Sociology 201 or approval of instructor. A study of social factors in the origin, development and function of religious institutions, with emphasis upon the basic principles of the Judeo-Christian tradition. Three periods a week for the first semester. Three credits.

**Sociology 432**—*Sociology of Leadership.* (S)
Prerequisite: Six hours of sociology of psychology. Causes and consequences of social stratification and social mobility; impact of culture, social structure and social interaction upon occupational achievement, personal creativity, inventiveness and leadership. Three periods a week for the second semester. Three credits. (Offered in alternate years; offered in 1973-74 )

**Sociology 481**—*History of Social Theory.* (S)
Prerequisite: Six hours of sociology. A study of theories in the historical development of sociology. Three periods a week for the first semester. Three credits.

**Sociology 482**—*Contemporary Sociological Theory.* (S)
Prerequisite: Six hours of sociology. An analysis of current sociological theory. Three periods a week for the second semester. Three credits.

**Sociology 488**—*General Readings.* (S)
Prerequisite: Six hours of sociology. Selected works ranging over the "sociological classics." Three credits.

**Sociology 489**—*Special Readings.* (S)
Selected readings from various specialized areas: cultural anthropology, marriage and the family, social welfare, delinquency and crime, population, minority groups, social organization, social theory, and the sociology of religion. Three credits.

**Sociology 490, 491, 492, 493**—*Individual Study and Research.* (S)
Not a regularly given course, but available to qualified students with the agreement of members of the department. Reading and research with a project or paper under the guidance of a member of the department. Offered as required either semester. Three credits each semester.

**Concentration in Social Welfare:**

Students electing a concentration in social welfare are provided supervised field placement in a social welfare agency. Such field placement is ordinarily concurrent with enrollment in a seminar (Sociology 490, 491) which emphasizes methods of social work intervention. The purpose of the seminar is integration of the field experience and academic material. Students enrolled in such a seminar, usually in their senior year, are expected to have completed Sociology 332, 333, plus other courses specified in consultation with the instructor.

Concentration in social welfare for sociology majors includes: (1) all the above indicated requirements for sociology majors; (2) Sociology 332, 333; (3) at least three courses selected from Sociology 311, 313, 331, 341, 342, 351, 352, 402, and 421; and (4) at least 120 hours of field placement.

**SPEECH**/*Associate Professor* Albert G. Duke, Chairman.

A major program in speech pathology and audiology is offered in cooperation with the University of Virginia (See page 43.)

All courses in speech are applicable to the major except Speech 251, 252, Speech Fundamentals Laboratory.

Speech **251, 252+**—*Speech Fundamentals Laboratory.* (D/E)
A functional course in reading and speaking, affording practice in basic speech skills. Emphasis is placed on individual speech problems and on the improvement of vocal delivery. Not credited toward a major in speech. No credit if Speech 331, 332 is taken for credit. One period a week. One credit each semester.

Speech **261**—*Voice and Diction.* (D/E)
Theory and practice of principles necessary to the improvement of the speaking voice. Individual analysis is offered with the aim of improving the student's quality, articulation, and pronunciation. Three periods a week. Three credits.

Speech **301**—*Group Discussion.* (H)
A study of the philosophy and practice of group discussion as a means of problem-solving and the exercise of group leadership. Three periods a week. Three credits (Offered in alternate years; offered in 1973-74.)

**Speech 302**—*Public Speaking.* (H)
A study of the art of public speaking, the organization and delivery of speeches of various types, and an examination of the history and theories of rhetoric. Three periods a week. Three credits. (Offered in alternate years; offered in 1973-74.)

**Speech 331, 332**—*Oral Interpretation.* (H)
A study of the fundamentals of voice production and clarity of diction as an aid to effective communication. Interpretation of prose, poetry, and dramatic literature in terms of its intellectual, emotional, and aesthetic content. Three periods a week. Three credits each semester.

**Speech 361**—*Voice Science.* (D/E)
A study of the anatomical, physiological, and neurological functioning of the speech and hearing mechanisms and speech problems resulting from the impairment of these systems. Three periods a week. Three credits. (Offered in alternate years; not offered in 1973-74.)

**Speech 362**—*Phonetics.* (D/E)
A study of American dialects and standards of speech employing the International Phonetic Alphabet. Three periods a week.Three credits. (Offered in alternate years; not offered in 1973-74.)

**Speech 481, 482**—*Individual Study.* (H)
Individual study under the direction of a member of the staff. Three credits each semester. By permission of the department.

## STATISTICS/*Assistant Professor* John C. Lambert, Adviser.

**Statistics 200**—*Introduction to Statistics.* (D/E)
A first course in statistics, assuming only a background in high school mathematics. Probability, binomial distribution, normal distribution, estimation and tests of hypotheses, chi-square, nonparametric statistics, regression and correlation. Examples from diverse fields, including social and behavioral sciences. Basic ideas are presented using intuitive arguments. Emphasis is on developing ability to reason statistically. Three credits.

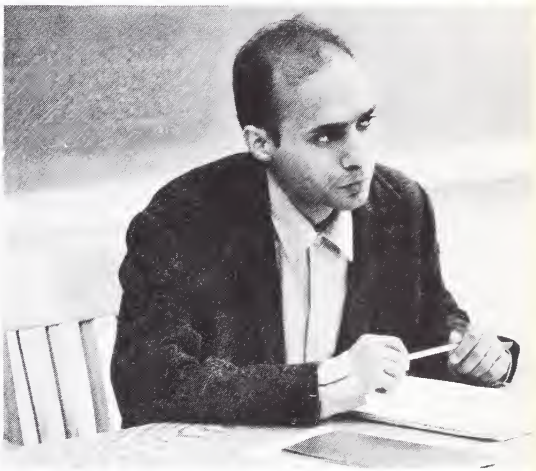
**Statistics 301, 302**—*Introduction to Probability and Statistical Inference.* (D/E)
A careful introduction to discrete and continuous probability and random variables, followed by a treatment of sampling, classical inference, simple analysis of variance and basics of experimental design; the treatment of these latter topics being made in the context of the framework set up in the first semester of the course. Three credits each semester.

**Statistics 420**—*Readings in Experimental Statistics.* (D/E)
General linear models, randomization and planning of experiments, experimental design and analysis, and other topics as required, including an introduction to computing on a time-sharing system. Three credits.

## TYPEWRITING COURSES

The courses do not carry college credit and are designed primarily to develop skill in typewriting for personal use. Proper techniques of typewriting and a mastery of the keyboard are developed. To facilitate registration, the following course numbers have been assigned.

**Typewriting 121-122**—
Three periods a week. No credit.



## THE CORPORATION OF MARY WASHINGTON COLLEGE

### Legal Title

"The Rector and Visitors of Mary Washington College"

### The Officers of the Visitors

Lewis Meriwether Walker, Jr. . . . . Rector
Irene Lundy Brown . . . . . .Vice Rector
Katherine Edmondson Hopper . . . . . .Secretary

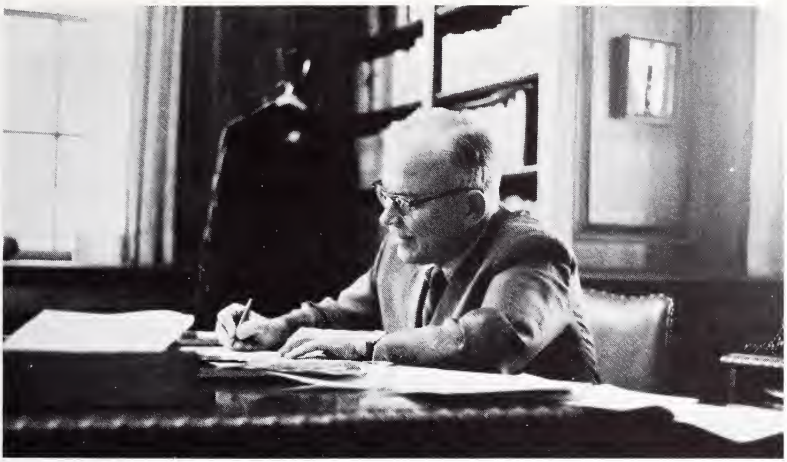
### The Visitors of the College

Joseph Earl Blackburn . . . . . Richmond
Irene Lundy Brown . . . . . Newport News
Gwendolyn Amory Cumming . . . . . Hampton
Patricia Head Ferguson . . . . . .Worcester, Mass.
Donna Henninger Henderson . . . . . Troutville
Katherine Edmondson Hopper . . . . . .Fairfax
Ann Louise Perinchief . . . . . .Williamsburg
Samuel DeWitt Proctor . . . . . .New Brunswick, N.J.
Joan Whittemore South . . . . . Hampton
Lewis Meriwether Walker, Jr. . . . . .Petersburg
Leah Fleet Waller . . . . . .Richmond
Ralph Melville Whitticar, III . . . . . Fredericksburg

## ADMINISTRATION

### Office of the President

Grellet C. Simpson, B.A., M.A., Ph.D., LL.D., Litt. D. . . . . *. . . President*
Michael Houston, B.A., M.A. . . . . *Vice-President*
Mervin A. Frantz, B.S. . . . . *Director of Personnel*
Barbara B. Powell, B.A. . . . . *Director of Information Services and Administrative Assistant*
Jere M.H. Willis, Jr., B.A., J.D. . . . . *Special Counsel*



Edward G. Moore, B.A. . . . . *Editorial Assistant, Office of Information Services*

Anne A. Moyse . . . . . *Secretary to the President*

Lucretia H. Oesterheld . . . . . *Secretary to the Vice-President*

Rickie Ann Limerick . . . . . *Secretary to the Director of Information Services*

Candace D. O'Byrne . . . . . *Secretary to the Director of Personnel*

**Office of the Dean**

James H. Croushore, B.A., M.A., Ph.D. . . . . *Dean of the College*

Susan J. Hanna, B.A., M.A., Ph.D. . . . . *Assistant Dean of the College for Academic Advising*

Lawrence A. Wishner, B.S., M.S., Ph.D. . . . *Assistant Dean of the College for Instruction*

Thomas L. Johnson, B.A., M.A., Ph.D.** . *Academic Adviser*

Richard E. Hansen,* B.A., M.A. . . . . *Academic Adviser*

Michael L. Mery, B.A., M.A., Ph.D. . . . . *Academic Adviser*

Cornelia D. Oliver, B.A., A.M., Ph.D. . . . . *Academic Adviser*

Mary Ellen Stephenson, B.A., M.A., Ph.D.** *Academic Adviser*

Rebecca T. Woosley,* A.B., B.S., M.S. . . . *Academic Adviser*

* 1972-73

** 1973-74

Martha L. Harding ..... *Secretary to the Dean*
Bonnie H. Clore ..... *Secretary to the Assistant Dean of the College for Instruction*
Susan H. Talley ..... *Secretary to the Assistant Dean of the College for Academic Advising*
Mary I. Kemp ..... *Clerk-Typist*

**Registrar**

Anne H. Bruckner, B.A., M.S. ..... *Registrar and Director of Financial Aid*
Helen H. Thomas ..... *Administrative Assistant to the Director of Financial Aid*
Audrey S. Hurlock ..... *Recorder, Secretary to the Registrar*
Jane H. Marra, B.S. ..... *Secretary to the Director of Financial Aid*
Nancy O. Carter ..... *Clerk-Typist, Office of the Registrar*
Shirley D. Barnes ..... *Clerk-Typist, Office of the Registrar*

**Office of the Dean of Students**

Mildred A. Droste, B.S., M.Ed. ..... *Dean of Students*
Claire T. Booker ... *Administrative Assistant to the Dean of Students*
Ann G. Fulham ..... Clerk-Typist

**Office of Student Services**

Ruth C. Vanier ..... *Administrative Assistant*

**Office of the Comptroller**

Edward V. Allison, Jr., B.S. ..... *Comptroller*
Claude T. Parcell, Jr., B.S. ..... *Business Manager*

H. Joseph McKane, B.S. ..... *Accountant*
Gloria S. Day ..... *Secretary to the Comptroller*
Donna R. MacKnight ..... *Clerk-Typist*
Susan D. Toombs ..... *Clerk-Typist*

**Office of the Director of Admissions**

A. Ray Merchent, B.A., M.Ed., D.Ed. ..... *Director of Admissions*
George F. Dickinson, Jr., B.A. .... *Admissions Counselor*
Brenda J. Lamison, B.A. ..... *Admissions Counselor*
Janet J. Cropp ..... *Secretary to the Director of Admissions*
Katherine L. Blake ..... *Records Clerk*
Carolyn T. Phillips ..... *Clerk-Typist*
Joan Y. Murray ..... *Clerk-Typist*

**Counseling Center**

Mary A. K. Kelly, B.A., M.A. ..... *Director*
Sharon W. Lancaster ..... *Assistant to the Director of the Counseling Center*

**Library**

Ruby York Weinbrecht, B.A., M.A. in L.S. ..... *Librarian*
B.A., Mary Washington College; M.A. in L.S., George Peabody Library School.

Barbara Alden, B.A., M.A., Ph.D. ..... *Archivist*
B.A., M.A., Wellesley College; Ph.D. University of Chicago.

Charles D. Balthis, B.A., M.S. in L.S. ..... *Head Cataloguer*
B.A., Randolph-Macon College; M.S. in L.S., The Catholic University of America.

Renna H. Cosner, A.B., A.M. in L.S. . . *Circulation Librarian*
A.B., Randolph-Macon Woman's College; A.M. in L.S., University of Michigan.

Ronald K. Hoeflin, B.A., M.L.S. . . . . *Assistant Cataloguer*
B.A., University of Minnesota; M.L.S., Indiana University.

Diane D. Fishman, B.A., M.S. in L.S. . . . *Staff Bibliographer*
B.A., Cornell University; M.S. in L.S., University of Illinois.

Mary J. Porter, B.A., M.A., M.S. in L.S. . . . . *Reference Librarian*
B.A., Mary Washington College; M.A., George Washington University; M.S. in L.S., Catholic University of America.

Cathy L. Ritchie, B.A., M.S.L.S. . . . . *Periodicals Librarian*
B.A., Virginia Polytechnic Institute and State University; M.S.L.S., Western Michigan University.

Taketo Ohtani, A.A., B.A., M.A. . . . . *Library Assistant*
A.A., Hiwassee College; B.A., M.A., Scarritt College.

Reed K. Simmons, B.A. . . . *Library Assistant-Circulation*
B.A., Mary Washington College

Marian S. Holt . . . . . *Administrative Assistant*
Mildred B. Ray . . . . . *Catalogue Typist*
Margaret J. Smith . . . . . *Circulation Clerk*
Sherry Anne Morgan . . . . . *Periodicals Clerk*
Helen Thornton . . . . . *Catalogue Typist*

**Alumni Association**

Diana D. Koski, B.A. . . . . *Director of Alumni Affairs*
Mary D. Shover . . . . . *Secretary*
Linda Garland. . . . . *Clerk*

**Health Services**

Lawrence R. Moter, B.S., M.D. . . . . *Chief, Medical Staff*
B.S., Virginia Polytechnic Institute, M.D.; Medical College of Virginia.

Harvey W. Allen, B.S., D.D.S., M.S.D. ..... *Consultant Medical Staff*
B.S., University of the South; D.D.S., M.S.D., Baylor University.

Raymond Jones, M.B. ..... *Associate, Medical Staff*
M.B.-B.S., University College of the West Indies in Jamaica (London University).

Andrew McDaniel, D.D.S. ..... *Consultant, Medical Staff*
D.D.S. (Orthodontics), Medical College of Virginia.

Raymond E. Matson, B.A., M.D. ... *Associate, Medical Staff*
B.A., M.D., Ohio State University.

David B. Rice, B.A., M.D. ..... *Associate, Medical Staff*
B.A., M.D., University of Virginia.

Virginia H. Cullen, R.N. ..... *Head Nurse*
R.N., Syracuse Memorial School of Nursing.

Merton D. Nugent, R.N. ..... *Nurse*
R.N., Petersburg Hospital School of Nursing

Bessie T. Olive, R.N. ..... *Nurse*
R.N., Mary Washington Hospital Training School.

Dorothy T. Shannon, R.N. ..... *Nurse*
R.N., Sarah Leigh Hospital, Norfolk.

Jeanne D. Tracy, R.N. ..... *Nurse*
Miseracordia Hospital, Edenton, Canada

Charlotte H. White, R.N. ..... *Nurse*
R.N., Johnston-Willis Hospital, Richmond.

## Administrative and Personnel Services

Doris I. Bourne ..... *Chief Operator, Switchboard*
Bobby W. Carter ..... *Supervisor, Tabulating Office*
Jessie F. Colvin ..... *Operator, Switchboard*
Janet J. DeShazo ..... *Payroll Supervisor*
June M. Ellis ..... *Night Operator, Switchboard*
Lois J. Embrey ..... *Bookkeeper*
Barbara Y. Ferrara ..... *Disbursing Clerk*
Mabel Gallahan ..... *Operator, Switchboard*
Josephine S. Henshaw ..... *Payroll Clerk*
Rosser C. Howard ..... *Supervisor Duplicating Services*

Linda M. Martin ..... *Mail Services Supervisor*
Frances S. Melle ..... *Cashier*
Linda S. Allen ..... *Tabulating Clerk*
Jane R. Shelton ..... *Disbursing Clerk*

**Bookstore**

Charles L. Read ..... *Manager*
Carolyn M. Whitaker ..... *Secretary*
Lucille H. Dent ..... *Clerk*
Evelyn S. Holmes ..... *Clerk*
Velma W. Meads ..... *Clerk*
Lucille O'Bier ..... *Clerk*

**Buildings and Grounds**

Vincent H. Willetts ..... *Superintendent of Buildings and Grounds*
Robert E. Revell ..... *Assistant Superintendent of Buildings and Grounds*
Franklin E. Hagy ..... *Executive Housekeeper*
Robert G. Clore ..... *Housekeeping Supervisor of Academic Buildings*
Selma J. Shelton ..... *Housekeeping Supervisor of Residence Halls*
Juanita S. Newton ..... *Secretary to the Superintendent of Buildings and Grounds*
Panie M. Houchin ..... *Clerk-Typist*
Shirley C. Middleton ..... *Clerk-Typist*

**Food Services**

Pal Robison ..... *Food Service Director*
Whiting B. Lee ..... *Assistant to the Director*
Mildred J. McGinniss ..... *Assistant to the Director*
David H. Stack ..... *Assistant to the Director*
Judy W. Seay ..... *Secretary to the Director*

Mary Lee H. Carter ..... *Manager, College Shop*
Adele F. Bozorth ..... *Hostess, Dining Hall*
Annie S. Gallant ..... *Hostess, Dining Hall*
Mary W. Jones ..... *Hostess, Dining Hall*
Ina M. Pitts ..... *Hostess, Dining Hall*
Joy G. Rankins ..... *Hostess, Dining Hall*
Edna B. Todt ..... *Hostess, Dining Hall*

**Placement Bureau**

A. Isabel Gordon ..... *Director of the Placement Bureau*
Mary D. Ross ..... *Secretary*
Ruth W. Brewer ..... *Secretary*

**Security**

Medford D. Haynes. ..... *Chief, Office of Security*
Charles W. Jones ..... *Deputy, Office of Security*
Daniel W. Bishop ..... *Campus Security Officer*
Harold B. English ..... *Campus Security Officer*
Julius W. Kucinski ..... *Campus Security Officer*
Edward G. Ramsey ..... *Campus Security Officer*
Howard R. Rose ..... *Campus Security Officer*
William R. Viar ..... *Campus Security Officer*
Betty L. Luttrell. ..... *Secretary*

**Residence Halls**

Maribeth Brewster ..... *Senior Assistant, Bushnell Hall*
Margaret G. Chase ..... *Complex Director, Tri-Unit-Westmoreland Halls*
Irene G. Doran. ..... *Residence Hall Director, Virginia Hall*
Freda Fryer. ..... *Complex Director, Marshall Hall-Russell Hall*
Sally V. Seward ..... *Administrative Aide, Marye Hall*
Virginia P. Cassidy ..... *Residence Director, Willard Hall*
Marion E. George ..... *Complex Director, Mason Hall-Randolph Hall*

Nellie F. Henry . . . . . *Complex Director, Jefferson Hall-Bushnell Hall*
Gwynne D. MacIntyre . . . . . *Senior Assistant, Russell Hall*
Martin G. March . . . . . *Administrative Aide, Trench Hill*
Norma L. Bolton . . . . . *Administrative Aide, Framar*
Karen Peters . . . . . *Senior Assistant, Westmoreland Hall*
Susan R. Meisinger . . . . . *Senior Assistant, Randolph Hall*
Martha L. Fisher . . . . . *Administrative Aide Brent Hall*

## FACULTY (1972-1973)

Edward Alvey, Jr., B.A., M.A., Ph.D.
*Professor Emeritus of Education*

B.A., M.A., Ph.D., University of Virginia.

Guenndolyn A. Beeler, A.A., B.S., M.A.
*Professor Emeritus of Home Economics*

A.A., Kansas City Junior College; B.S., Kansas State College; M.A., Columbia University.

Julien Binford
*Professor Emeritus of Art*

Graduate, Art Institute of Chicago, Ryerson Fellowship for study in France, Virginia Museum Senior Fellowship, Rosenwald Fellowship. Represented in permanent collections of Boston Museum of Fine Arts, University of Georgia, University of Nebraska, Art Institute of Fine Arts, Springfield Museum, New Britain Museum, Oberlin College, and others.

Zoe W. Black, B.A., A.M., Ph.D.
*Professor Emeritus of Biology*

B.A., University of Tennessee; A.M., Ph.D., Duke University.

Mildred M. Bolling, A.B., A.M.
*Professor Emeritus of Modern Foreign Languages*

A.B., Colorado College; A.M., University of Missouri; diploma, Institut de Phonetique, University of Paris.

Vladimir V. Brenner
*Professor Emeritus of Modern Foreign Languages*

State Gymnasium of Moscow; Officer of Academic Degree, Military Academy, Tver, Russia.

Louis J. Cabrera, A.B., M.A., Ph.D.
*Professor Emeritus of Modern Foreign Languages*

A.B., University of Dubuque; M.A., University of Maine; Doctor of Letters and Philosophy, University of Madrid.

Hobart C. Carter, B.S., M.S., Ph.D.
*Professor Emeritus of Mathematics*

B.S., Central Missouri State College; M.A., Ph.D., University of Missouri.

Oscar H. Darter, A.B., A.M., Ed.D.
*Professor Emeritus of History*
A.B., State Teachers College, Ada, Oklahoma; A.M., Columbia University; Ed.D., George Washington University.

Eileen K. Dodd, Ph.B., M.A., Ph.D.
*Professor Emeritus of Psychology*
Ph.B., Muhlenberg College; M.A., Ph.D., New York University.

Jean Slater Edson, A.B., M.A.
*Professor Emeritus of Music*
A.B., Vassar College; M.A., Columbia University.

E. Boyd Graves, A.B., A.M., Ed.D.
*Professor Emeritus of Philosophy*
A.B., A.M., College of William and Mary; Ed.D., George Washington University.

Margaret Hargrove, A.B., A.M., Ph.D., L.H.D.
*Professor Emeritus of Classics*
A.B., Randolph-Macon Woman's College; A.M., Ph.D., Cornell University; L.H.D., Lake Erie College.

Kurt F. Leidecker, B.A., A.M., Ph.D.
*Professor Emeritus of Philosophy*
B.A., A.M., Oberlin College; Ph.D., University of Chicago.

George E. Luntz, B.M., M.M., Ph.D.
*Professor Emeritus of Music*
B.M., M.M., Dana School of Music; Ph.D., State University of Iowa.

Clifton B. McIntosh, A.B., M.A., Ph.D.
*Professor Emeritus of Modern Foreign Languages*
A.B., Duke University; M.A., Ph.D., University of Virginia.

Milton H. Stansbury, A.B., Ph.D.
*Professor Emeritus of Modern Foreign Languages*
A.B., Brown University; Ph.D., University of Pennsylvania.

Reginald W. Whidden, B.A., M.A., Ph.D.
*Professor Emeritus of English*

B.A., M.A., McMaster University; Ph.D., Yale University.

Dorothy D. Van Winckel, B.S., M.A.
*Professor Emeritus of Art*

B.S., University of Tennessee; M.A., Peabody College.

Edgar E. Woodward, B.S.
*Professor Emeritus, Comptroller*

B.S., Ohio State University.

**Professors**

Phillip J. Allen, A.B., M.A., B.D., Ph.D.
*Professor of Sociology*

A.B., Ohio Northern University; M.A., Northwestern University; B.D., Garret Theological Seminary; Ph.D., The American University.

Rachel J. Benton, B.A., M.A., Ph.D.
*Professor of Health, Physical Education, and Recreation*

B.A., De Pauw University; M.A., Ph.D., State University of Iowa.

*Julien Binford
*Professor of Art*

Graduate, Art Institute of Chicago, Ryerson Fellowship for study in France, Virginia Museum Senior Fellowship, Rosenwald Fellowship. Represented in permanent collections of Boston Museum of Fine Arts, University of Georgia, University of Nebraska, Art Institute of Chicago, Museum of the State of Washington, Virginia Museum of Fine Arts, Springfield Museum, New Britain Museum, Oberlin College, and others.

Samuel O. Bird, B.S., M.S., Ph.D.
*Professor of Geology*

B.S., Marshall College; M.S., University of Wisconsin; Ph.D., University of North Carolina.

Nathaniel H. Brown, A.B., M.A., Ph.D.
*Professor of English*

A.B., Princeton University; M.A., Syracuse University; Ph.D., Columbia University.

*Professor Emeritus of Art, second semester.

Stanley F. Bulley, Mus. Bac., Mus. Doc.
*Professor of Music*
L.R.A.M., Royal Academy of Music; Mus. Bac., Mus. Doc., University of Toronto.

* **Hobart C. Carter, B.S., M.A., Ph.D.
*Professor of Mathematics*
B.S., Central Missouri State College; M.A., Ph.D., University of Missouri.

L. Clyde Carter, Jr., B.A., M.Div., Ph.D.
*Professor of Sociology*
B.A., Carson-Newman College; M. Div., Union Theological Seminary; Ph.D., Yale University.

Herbert L. Cover, B.S., M.S., Ph.D.
*Professor of Chemistry*
B.S., M.S., Ph.D., University of Virginia.

James H. Croushore, B.A., M.A., Ph.D.
*Professor of English*
B.A., M.A., Lehigh University; Ph.D., Yale University.

Benjamin W. Early, B.A., M.A., Ph.D.
*Professor of English*
B.A., M.A., University of Virginia; Ph.D., Duke University.

Samuel T. Emory, Jr., A.B., M.A., Ph.D.
*Professor of Geography*
A.B., M.A., University of North Carolina; Ph.D., University of Maryland.

Lewis P. Fickett, Jr., A.B., L.L.B., M.P.A., Ph.D.
*Professor of Political Science*
A.B., Bowdoin College; L.L.B., M.P.A., Ph.D., Harvard University.

Marion A. Greene, A.B., M.A., Ph.D.
*Professor of Modern Foreign Languages*
A.B., Tufts College; M.A., Radcliffe College; Ph.D., University of North Carolina.

* Deceased, February 24, 1973.
**Professor Emeritus of Mathematics, second semester.

William Wayne Griffith, A.B., B.S. in L.S., M.A., Ph.D.
*Professor of English*

A.B., University of Pennsylvania; B.S. in L.S., Drexel Institute; M.A., Harvard University; Ph.D., University of Pittsburgh.

Henry W. Hewetson, B.A., M.A., Ph.D.
*Professor of Economics*

B.A., University of Toronto; M.A., University of British Columbia; Ph.D., University of Chicago.

Miriam B. Hoge, A.B., M.A., Ph.D.
*Professor of Modern Foreign Languages*

A.B., Randolph-Macon Woman's College; M.A., Ph.D., University of Pennsylvania.

Anna S. Hoye, A.B., M.S., Ph.D.
*Professor of Biology*

A.B., Lynchburg College; M.S., Ph.D., University of Wisconsin.

Earl G. Insley, B.S., Ph.D.
*Professor of Chemistry*

B.S., Ph.D., Johns Hopkins University.

Rose Mary Johnson, A.B., M.A., Ph.D.
*Professor of Biology*

A.B., Hood College; M.A., Ph.D., University of Virginia.

Edwin H. Jones, B.A., M.A., Ph.D.
*Professor of Modern Foreign Languages*

B.A., Hampden-Sydney College; M.A., Duke University; Ph.D., University of Virginia.

Walter B. Kelly, B.S., M.A., Ph.D.
*Professor of English*

B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

Roger L. Kenvin, A.B., M.A., M.F.A., D.F.A.
*Professor of Dramatic Arts*

A.B., Bowdoin College; M.A., Harvard University; M.F.A., D.F.A., Yale University.

Pauline G. King, B.S., M.A., Ph.D.
*Professor of Art*

B.S., Mary Washington College; M.A., George Peabody College; Ph.D., University of Chicago.

*Kurt F. Leidecker, B.A., A.M., Ph.D.
*Professor of Philosophy*

B.A., A.M., Oberlin College; Ph.D., University of Chicago.

Almont Lindsey, B.S., M.A., Ph.D.
*Professor of History*

B.S., Knox College; M.A., Ph.D., University of Illinois.

Sidney H. Mitchell, B.A., M.A., Ph.D.
*Professor of English*

B.A., Swarthmore College; M.A., Ph.D., University of Virginia.

Mary Jo Parrish, B.A., M.A., Ph.D.
*Professor of Biology*

B.A., M.A., University of North Carolina; Ph.D., University of Virginia.

William C. Pinschmidt, Jr., B.S., M.S., Ph.D.
*Professor of Biology*

B.S., Mount Union College; M.S., Ohio State University; Ph.D., Duke University.

Claudia M. Read, B.S., M.A.
*Professor of Health, Physical Education, and Recreation*

B.S., Woman's College of the University of North Carolina; M.A., New York University.

Carmen L. Rivera, B.A., M.A., Ph.D.
*Professor of Modern Foreign Languages*

B.A., University of Puerto Rico; M.A., Florida State College for Women; Ph.D., University of Salamanca.

Eva I. Shipstone, B.A., M.A., Ph.D., LL.D., D.Sc.
*Visiting Professor in Psychology*

B.A., Isabella Thoburn College; M.A., Vanderbilt University; Ph.D., Radcliffe College; LL.D., Goucher College, Randolph Macon Woman's College; D.Sc., Queen's College.

Grellet C. Simpson, B.A., M.A., Ph.D., LL.D., Litt.D.
*Professor of English*

B.A., Randolph-Macon College; M.A., Ph.D., University of Virginia; LL.D., Randolph-Macon College; Litt.D., Flagler College.

*Professor Emeritus of Philosophy, second semester.

Charles A. Sletten, B.A., A.M., Ph.D.
*Professor of Sociology*

B.A., University of Virginia; A.M., Ph.D., Harvard University.

Mary Ellen Stephenson, B.A., M.A., Ph.D.
*Professor of Modern Foreign Languages*

B.A., Westhampton College; M.A., Middlebury College; Ph.D., University of Chicago.

Laura V. Sumner, A.B., M.A., Ph.D.
*Professor of Classics*

A.B., Vassar College; M.A., Ph.D., Johns Hopkins University.

Raiford E. Sumner, B.A., M.A., Ph.D.
*Professor of Political Science*

B.A., University of Tennessee; M.A., University of Mississippi; Ph.D., Louisiana State University.

Joseph C. Vance, B.A., M.A., Ph.D.
*Professor of History*

B.A., M.A., Ph.D., University of Virginia.

George M. Van Sant, A.B., M.A., Ph.D.
*Professor of Philosophy*

A.B., St. John's College; M.A., Ph.D., University of Virginia.

Lawrence A. Wishner, B.S., M.S., Ph.D.
*Professor of Chemistry*

B.S., M.S., Ph.D., University of Maryland.

Benjamin F. Zimdars, B.A., M.A., Ph.D.
*Professor of History*

B.A., North Central College; M.A., University of Wisconsin; Ph.D., University of Texas.

## Visiting Artist

*Eric Isenburger

Graduate, Realgymnasium, Frankfurt am Main; Member, National Academy of Design; Represented in permanent collections of Museum of Modern Art, Pennsylvania Academy of Art, Corcoran Gallery, John Herron Art Institute, Institute of Arts and Letters, National Academy of Design, Encyclopedia Britannica Collection.

* Second semester, 1972-73.

## Associate Professors

Margery E. Arnold, B.S., M.A.
*Associate Professor of Health, Physical Education, and Recreation*
B.S., Russell Sage College; M.A., Columbia University.

Clavio F. Ascari, Dottore in LL.MM.
*Associate Professor of Modern Foreign Languages*
Dottore in Lettere Moderne, Universita Bocconi, Milano-Abilitazione all'Insegnamento - Professore di Ruolo - Diploma in Esperanto.

*Bulent I. Atalay, B.S., M.S., Ph.D.
*Associate Professor of Physics*
B.S., M.S., Ph.D., Georgetown University.

James E. Baker, B.S., M.Ed.
*Associate Professor of Music*
B.S., M.Ed., Pennsylvania State University.

Juliette B. Blessing
*Associate Professor of Modern Foreign Languages*
Licence-des-Lettres, University of Lille; Diplome d'Ecole des Sciences Politiques, University of Paris; Diplome d'Etudes Superieures, University of Paris.

Roger J. Bourdon, B.S., M.A., Ph.D.
*Associate Professor of History*
B.S., Loyola University; M.A., Ph.D., University of California at Los Angeles.

Marshall E. Bowen, B.Ed., M.A., Ph.D.
*Associate Professor of Geography*
B.Ed., Plymouth Teachers College; M.A., Kent State University; Ph.D., Boston University.

*Joseph Bozicevic, B.S., M.A., Ph.D.
*Associate Professor of Modern Foreign Languages*
B.S., Juniata College; M.A., Middlebury College; Ph.D., Georgetown University.

*On leave of absence, 1972-73.

Marion K. Chauncey, B.M., M.A.
*Associate Professor of Music*

Graduate, Georgia State Woman's College; B.M., Ithaca Conservatory of Music; M.A., Columbia University.

Elizabeth A. Clark, A.B., M.A., Ph.D.
*Associate Professor of Religion*

A.B., Vassar College; M.A., Ph.D., Columbia University.

Mildred A. Droste, B.S., M.Ed.
*Associate Professor of Health, Physical Education and Recreation*

B.S., Longwood College; M.Ed., Woman's College of the University of North Carolina.

Albert G. Duke, A.B., M.A.
*Associate Professor of Dramatic Arts and Speech*

A.B., M.A., Syracuse University.

Victor A. Fingerhut, B.A., M.A.
*Associate Professor of Economics and Political Science*

B.A., M.A., Yale University.

Delmont F. Fleming, B.A., M.A., Ph.D.
*Associate Professor of English*

B.A., Eastern Baptist College; M.A., Ph.D., University of Pennsylvania.

Ruth T. Friedman, B.S., Ph.D.
*Associate Professor of Biology*

B.S., Ph.D., Medical College of Virginia.

Donald E. Glover, B.A., M.A., Ph.D.
*Associate Professor of English*

B.A., College of William and Mary; M.A., Ph.D., University of Virginia.

Miriam J. Greenberg, B.S., M.Ed.
*Associate Professor of Health, Physical Education, and Recreation*

B.S., M.Ed., University of Maryland.

Anne F. Hamer, B.M., M.M.
*Associate Professor of Music*
B.Mus., University of Michigan; M.Mus., The Catholic University of America.

Susan J. Hanna, B.A., M.A., Ph.D.
*Associate Professor of English*
B.A., Ohio State University; M.A., Ph.D., University of Michigan.

Teruo Hara, B.A., M.A.
*Associate Professor of Art*
B.A., M.A., Tokyo Kyoiko University.

Anna Mae Harris, B.A., M.A.
*Associate Professor of Mathematics*
B.A., Mary Washington College; M.A., University of Virginia.

Rosemary H. Herman, A.B., M.A.
*Associate Professor of Modern Foreign Languages*
A.B., Woman's College of the University of North Carolina; M.A., University of North Carolina.

Margaret M. Hofmann, A.B., M.A., Ph.D.
*Associate Professor of Modern Foreign Languages*
A.B., Wellesley College; M.A., University of New Hampshire; Ph.D., University of Kansas.

Levin Houston, III, B.A.
*Associate Professor of Music*
B.A., Virginia Military Institute.

Michael Houston, B.A., M.A.
*Associate Professor of History*
B.A., Randolph-Macon College; M.A. (Communications), The American University; M.A. (History), The American University.

Thomas L. Johnson, B.A., M.A., Ph.D.
*Associate Professor of Biology*
B.A., Lynchburg College; M.A., Ph.D., University of Virginia.

Mary A. K. Kelly, B.A., M.A.
*Associate Professor of Psychology*
B.A., Mary Washington College; M.A., Ohio State University.

Richard J. Krickus, B.A., M.A., Ph.D.
*Associate Professor of Economics and Political Science*
B.A., College of William and Mary; M.A., University of Massachusetts; Ph.D., Georgetown University.

Bernard C. Lemoine, B.M., M.M.
*Associate Professor of Music*
B.M., Oberlin Conservatory of Music; M.M., University of Illinois.

Bernard L. Mahoney, Jr., B.S., M.S., Ph.D.
*Associate Professor of Chemistry*
B.S., M.S., Boston College; Ph.D., University of New Hampshire.

A. Ray Merchent, B.A., M.Ed., D. Ed.
*Associate Professor of Education*
B.A., Emory and Henry College; M.Ed., D.Ed., University of Virginia.

Fred E. Miller, A.B., M.A.
*Associate Professor of Economics*
A.B., M.A., Colorado State College of Education.

Nancy H. Mitchell, B.A., M.A., Ph.D.
*Associate Professor of English*
B.A., Swarthmore College; M.A., Yale University; Ph.D., The Catholic University of America.

Paul C. Muick, B.F.A., A.M., Ph.D.
*Associate Professor of Art*
B.F.A., Ohio State University; A.M., University of Chicago; Ph.D., Ohio State University.

Nikola M. Nikolic, B.S., M.A., Ph.D.
*Associate Professor of Physics*
B.S., Belgrade University; M.A., Ph.D., Columbia University.

Cornelia D. Oliver, B.A., A.M., Ph.D.
*Associate Professor of Art*
B.A., Smith College; A.M., Duke University; Ph.D., The Catholic University of America.

Alice B. Rabson, A.B., M.S., Ph.D.
*Associate Professor of Psychology*
A.B., Cornell University; M.S., Ph.D., Purdue University.

Key S. Ryang, B.A., M.A., Ph.D.
*Associate Professor of History*
B.A., Trinity University; M.A., Ph.D., Columbia University.

Richard L. Sarchet, B.S., M.S.
*Associate Professor of Mathematics*
B.S., Southwestern State College, Oklahoma; M.S., Oklahoma State University.

Paul C. Slayton, Jr., B.S., M.Ed., D.Ed.
*Associate Professor of Education*
B.S., M.Ed., D.Ed., University of Virginia.

Glen R. Thomas, B.A., M.A., Ph.D.
*Associate Professor of American Studies*
B.A., Stanford University; M.A., The American University; Ph.D., Emory University.

Roy B. Weinstock, B.A., M.A., Ph.D.
*Associate Professor of Psychology*
B.A., Brooklyn College; M.A., Hollins College; Ph.D., Syracuse University.

Rebecca T. Woosley, A.B., B.S., M.S.
*Associate Professor of Health, Physical Education, and Recreation*
A.B., Woman's College of the University of North Carolina; B.S., Mary Washington College, M.S., Louisiana State University.

### Assistant Professors

John M. Albertine, A.B.
*Assistant Professor of Economics and Political Science*
A.B., King's College.

J. Christopher Bill, A.B., M.S.
*Assistant Professor of Psychology*
A.B., College of the Holy Cross; M.S., University of Bridgeport.

*Janet F. Bonyhard, B.A., M.A.
*Assistant Professor of Philosophy*
B.A., Leeds University; M.A., Bedford College, University of London.

Marilyn Bresler, B.A., M.S.
*Assistant Professor of Psychology*
B.A., Brooklyn College; M.S., University of Massachusetts.

John P. Bruckner, B.A., M.A.
*Assistant Professor of Modern Foreign Languages*
B.A., Goshen College; M.A., Wayne State University.

Kent W. Butzine, B.A., M.A., Ph.D.
*Assistant Professor of Psychology*
B.A., Northwestern University; M.A., Ph.D., University of North Carolina.

Donald V. Byrd, B.S., M.A.
*Assistant Professor of Geography*
B.S., M.A., University of Southern Mississippi.

David W. Cain, A.B., B.D., M.A.
*Assistant Professor of Religion*
A.B., Princeton University; B.D., Yale University; M.A., Princeton University.

Otho C. Campbell, B.A., M.A.
*Assistant Professor of History*
B.A., Richmond College; M.A., The American University.

R. Bruce Carruthers, B.A., M.A., Ph.D.
*Assistant Professor of English*
B.A., Bucknell University; M.A., Ph.D., University of Iowa.

*On leave of absence first semester, 1972-73.

William B. Clatanoff, Jr., B.A., M.A.,
*Assistant Professor of Economics and Political Science*
B.A., Duke University; M.A., Ph.D., University of Maryland.

Juanita H. Clement, B.S., M.A.
*Assistant Professor of Health, Physical Education, and Recreation.*
B.S., Radford College; M.A., George Peabody College.

William B. Crawley, Jr., B.A., M.A.
*Assistant Professor of History*
B.A., Hampden-Sydney College; M.A., University of Virginia.

Judith A. Crissman, B.A., Ph.D.
*Assistant Professor of Chemistry*
B.A., Thiel College; Ph.D., University of North Carolina.

Dennis G. DaLuiso, B.S., M.F.A.
*Assistant Professor of Dramatic Arts*
B.S., Canisius College; M.F.A., Yale University.

Daniel A. Dervin, B.S., M.A., Ph.D.
*Assistant Professor of English*
B.S., Creighton University; M.A., Ph.D., Columbia University.

A. Stephen Disraeli, B.A., M.A.,
*Assistant Professor of Linguistics*
B.A., New York University; M.A., Ph.D., Indiana University.

Stephen W. Fuller, B.S., Ph.D.
*Assistant Professor of Biology*
B.S., Cornell University; Ph.D., University of New Hampshire.

John K. George, A.B., M.S.
*Assistant Professor of Chemistry*
A.B., Columbia College; M.S., University of Connecticut.

James B. Gouger, B.A., M.A.
*Assistant Professor of Geography*
B.A., Montclair State College; M.A., University of Florida.

Robin S. Gushurst, B.A., Ph.D.
*Assistant Professor of Psychology*
B.A., Ph.D., University of Chicago.

Richard E. Hansen, B.A., M.A.
*Assistant Professor of English*
B.A., M.A., Duke University.

Ruby C. Harris, B.S., M.Ed.
*Assistant Professor of Home Economics*
B.S., Mary Washington College; M.Ed., University of Virginia.

Diane F. Hatch, A.B., M.A.
*Assistant Professor of Classics*
A.B., Sweet Briar College; M.A., University of North Carolina.

Barbara S. Hochstetler, B.A., M.A.
*Assistant Professor of Art*
B.A., Trinity University; M.A., University of Maryland.

Joseph E. Holmes, B.S., M.S., D.Ed.
*Assistant Professor of Education*
B.S., M.S., State University of New York at New Paltz; Ph.D., University of Virginia.

Catherine H. Hook, B.S., M.S.
*Assistant Professor of Education*
B.S., Madison College; M.S., University of Virginia.

Ayako Imai, B.S., M.A.
*Assistant Professor of Art*
B.A., Tsuda Women's College; M.A., Columbia University.

Mildred C. Jamison, B.S., M.S.
*Assistant Professor of Home Economics*
B.S., East Tennessee State College; M.S., University of Tennessee.

Timothy A. Jensen, B.A., M.A.
*Assistant Professor of Religion*
B.A., Dana College; M.A., University of Chicago Divinity School.

Lafayette J. Jones, B.S., M.A.T.
*Assistant Professor of Mathematics*

B.S., United States Naval Academy; M.A.T., Duke University.

Lucile C. Jones, A.B., M.A.
*Assistant Professor of Classics*

A.B., Sweet Briar College; M.A., University of Virginia; M.A., University of Michigan; Roman Civilization Certificate, American Academy in Rome, Italy; Greek Civilization Certificate, American School of Classical Studies, Athens.

James W. Kemp, Jr., B.A., M.A., Ph.D.
*Assistant Professor of English*

B.A., Millsaps College; M.A., Mississippi State University; Ph.D., University of South Carolina.

Bernard N. Klenke, B.S.
*Assistant Professor of History*

B.S., Georgetown University.

John M. Kramer, B.A., M.A.
*Assistant Professor of Economics and Political Science*

B.A., LaSalle College; M.A., University of Virginia.

John C. Lambert, B.S., M.E.S.
*Assistant Professor of Statistics*

B.S., Brigham Young University; M.E.S., North Carolina State University.

*John L. Lamph, A.A., B.A., M.F.A.
*Assistant Professor of Art*

A.A., Fullerton Junior College; B.A., California State College at Fullerton; M.F.A., Claremont Graduate School.

Alexander J. Lindsey, B.A., M.S., M.A., Ph.D.
*Assistant Professor of Mathematics*

B.S., State University College; M.S., M.A., Ph.D., Syracuse University.

*On leave of absence first semester, 1972-73.

Carlton R. Lutterbie, Jr., B.S., M.A.
*Assistant Professor of English*

B.S., Northwestern University; M.A., University of Chicago.

Bruce D. MacEwen, B.A., M.A., Ph.D.
*Assistant Professor of Psychology*

B.A., LaVerne College; M.A., University of California at Los Angeles; Ph.D., Arizona State University.

Lloyd J. Mallan, B.A., M.F.A.
*Assistant Professor of Dramatic Arts*

B.A., Pennsylvania State University; M.F.A., Carnegie-Mellon University.

Paul B. Manchester, B.A.
*Assistant Professor of Economics and Political Science*

B.A., Yale University.

John C. Manolis, B.A., M.A.
*Assistant Professor of Modern Foreign Languages*

B.A., Assumption University; M.A., Florida State University; diploma, Institut de Phonetique, University of Paris.

Michael L. Mery, B.A., M.A., Ph.D.
*Assistant Professor of Psychology*

B.A., San Francisco State College; M.A., Ph.D., Syracuse University.

Robert L. Nadeau, B.A., M.A., Ph.D.
*Assistant Professor of English*

B.A., The University of the South; M.A., Ph.D., University of Florida.

Nitya R. Nath, I.Sc., B.Sc., M.Sc., A.I., Ph.D.
*Assistant Professor of Physics*

I.Sc., B.Sc., Presidency College; M.Sc., Calcutta University; A.I., Saha Institute of Nuclear Physics; Ph.D., Cornell University.

Phylis North, B.A., M.A.
*Assistant Professor of Art*

B.A., Radford College; M.A., Pennsylvania State University.

Malinda B. Orlin, A.B., M.S.W.
*Assistant Professor of Sociology*
A.B., M.S.W., University of Michigan.

Patricia J. Pierce, B.A., M.S.
*Assistant Professor of Mathematics*
B.A., University of Colorado; M.S., Oregon State University.

Mary W. Pinschmidt, A.B., A.M.
*Assistant Professor of Biology*
A.B., Western Maryland College; A.M., Duke University.

Raman K. Singh, B.A., M.A., Ph.D.
*Assistant Professor of English*
B.A. St. Stephen's College (Delhi, India); M.A., Western Michigan University, Ph.D., Purdue University.

Roy H. Smith, B.S., Ph.D.
*Assistant Professor of Psychology*
B.S., University of Tennessee; Ph.D., University of Pennsylvania.

Peter V. Snyder, B.A., M.A., Ph.D.
*Assistant Professor of Philosophy*
B.A., M.A., Bowling Green University; M.A., University of Massachusetts; Ph.D., (four college consortium) – Amherst, Mt. Holyoke, Smith, and the University of Massachusetts.

*Joanne G. Southworth, B.A., Ph.D.
*Assistant Professor of Biology*
B.A., Randolph-Macon Woman's College; Ph.D., Medical College of Virginia.

Newton K. Stablein, B.S., M.S.
*Assistant Professor of Geology*
B.S., Georgetown University; M.S., Northwestern University.

Arthur L. Tracy, B.A., M.A.
*Assistant Professor of History*
B.A., Barrington College; M.A., The American University.

*First semester, 1972-73.

Sue Collins Tussey, B.S., M.S.
*Assistant Professor of Health, Physical Education, and Recreation*
B.S., Eastern Kentucky University; M.S., University of Tennessee.

Alexander K. Tyree, B.S., M.A.T.
*Assistant Professor of Mathematics*
B.S., United States Naval Academy; M.A.T., Duke University.

Richard H. Warner, A.B., M.A.
*Assistant Professor of History*
A.B., Dartmouth College; M.A., New York University.

Janet G. Zeleznock, B.S., M.A.
*Assistant Professor of Mathematics*
B.S., St. Francis College; M.A., Duquesne University.

Paul M. Zisman, B.A., M.A.T.
*Assistant Professor of Education*
B.A., College of William and Mary; M.A.T., Howard University.

## Instructors

Martha C. Awdziewicz, B.A., M.A.
*Instructor in Modern Foreign Languages*
B.A., Manhattanville College; M.A., Brown University.

*Michael L. Bass, A.A., B.S., M.S.
*Instructor in Biology*
A.A., Clinch Valley College; B.S., Virginia Polytechnic Institute; M.S., Medical College of Virginia.

Jeanne D. Chalifoux
*Instructor in Music*
Graduate, Curtis Institute of Music.

Marcia C. Chaves, B.A., M.A.
*Instructor in Modern Foreign Languages*
B.A., Mary Washington College; M.A., University of Virginia.

*On leave of absence, 1973-74.

Nancy C. Dosch, B.S.
*Instructor in Health, Physical Education, and Recreation*
B.S., University of Maryland.

Sonja Dragomanovic
*Instructor in Health, Physical Education, and Recreation*
Professional Dance Certificate, Zagreb State Opera Ballet School, Yugoslavia; diploma, Meister Staten Fur Tranz, Berlin, Germany; Mozarteum Conservatory of Music, Salzburg, Austria.

Joseph J. Ellis, B.A., M.A.
*Instructor in Sociology*
B.A., Millsaps College; M.A., Western Kentucky University.

Martha V. Fickett, B.A., M.M.
*Instructor in Music*
B.A., Mary Washington College; M.M., University of Michigan.

Kathleen Harty, B.S.
*Instructor in Health, Physical Education, and Recreation*
B.S., The Juilliard School.

John P. Johnson, B.S.
*Instructor in Education*
B.S., Virginia State College.

Harold A. M. Kirschner
*Instructor in Health, Physical Education, and Recreation*
Graduate of Officers' Training School, Copenhagen, Denmark.

*Leslie E. Pitts, B.A., M.S.
*Instructor in Physics*
B.A., Kalamazoo College; M.S., Georgetown University.

Joanna L. Quann, A.B., M.A.
*Instructor in Modern Foreign Languages*
A.B., Wesleyan College; M.A., Duke University.

*On leave of absence, 1973-74.

Peggy K. Reinburg, B.A., M.Mus.
*Instructor in Music*
B.A., Mary Washington College; M.Mus., Northwestern University.

Yvonne M. Sabine, B.A.
*Instructor in Music*
B.A., The American University.

Jacquelyn M. Vawter, B.S.Ed., M.Ed.
*Instructor in Education*
B.S.Ed., Illinois State University; M.Ed., University of Maryland.

Judith K. Warner, A.B., M.A.
*Instructor in Modern Foreign Languages*
A.B., Upsala College; M.A., New York University.

### Assistant Instructors

Lydie S. Mann
*Assistant Instructor in Modern Foreign Languages*
Baccalaureat, Lyce Georgesville, Paris; diploma, Institut de Phonetique, University of Paris.

Mary Jane Sotzing, A.A., B.A.
*Assistant Instructor in Chemistry*
A.A., Warren Wilson College; B.S., Berea College.

## DEGREES CONFERRED

### June, 1972

### Bachelor of Arts

*With Honors in Classics*

Frances Vincent Hickson — Bon Air, Va.

*With Honors in English*

Mary Katharine Bradford — Richmond, Va.
Thea Louise Cox — Herndon, Va.

*With Honors in Geography*

Patricia Marie Kewer — Alexandria, Va.

*With Honors in History*

Deborah Edith Hart — Bloomfield, N. J.

*With Honors in Latin American Studies*

Genevieve Pace Keller — Charlottesville, Va.

*With Honors in Philosophy*

Martha Knox Morrison — Charlottesville, Va.

*With Honors in Political Science*

Gale Ann Mattox — Hampton, Va.

*With Honors in Psychology*

Deborah Ann Stahl — Baltimore, Md.

### Bachelor of Arts

Martha Gordon Abbott — Norfolk, Va.
Virginia Crow Acors — Fredericksburg, Va.
Janice Winston Albright — Falls Church, Va.
Kathleen Alice Atkinson — Alexandria, Va.
Sally Todd Bailey — Charlottesville, Va.
Charlene Gale Baldwin — Alexandria, Va.
Margery Corinne Ball — Richmond, Va.
Margaret Anna Barnett — Arlington, Va.
Patricia Plunkett Barrow — Alexandria, Va.
Elena Barton — Trenton, N. J.
Elaine Mary Margaret Bell — Windsor, Conn.
Judith Ann Benevento — Arlington, Va.
Kathleen Mason Bickers — Crozet, Va.
Diane Eileen Bignall — Newport News, Va.

| | |
|---|---|
| Patricia Dianne Bishop | Fredericksburg, Va. |
| Rita Ann Bissell | Virginia Beach, Va. |
| Gayle Camille Blackstone | Norfolk, Va. |
| Sallie Ligon Bonifant | Richmond, Va. |
| Ann Mitchell Bowling | Accomac, Va. |
| Annetta Susan Brennan | Hollywood, Fla. |
| Theresa Virginia Brennan | Richmond, Va. |
| Donna Marie Briggs | Portsmouth, Va. |
| Carlene Joy Brodell | Fredericksburg, Va. |
| Abigail A. Brooks | Bedminster, Pa. |
| Paula Jean Brooks | Hampton, Va. |
| Mary Kay Buckingham | Falls Church, Va. |
| Pamela Rae Buckles | Vienna, Va. |
| Deborah Ann Burgess | Lexington, Va. |
| Barbara Anne Burke | Annandale, Va. |
| Jean Michelle Burkett | Jacksonville, Fla. |
| Donna Lee Calve | Darlen, Conn. |
| Linda Kay Carpenter | Lynchburg, Va. |
| Marsha Susan Carver | Fredericksburg, Va. |
| Jacqueline Lee Chappell | Clarksville, Va. |
| Elizabeth Anne Chezik | Richmond, Va. |
| Sandra Lea Ciarcia | Fairfax, Va. |
| Charlotte Maxine Clark | Lynchburg, Va. |
| Laurie Allyn Clark | Waltham, Mass. |
| Kathleen Florence Clarke | Great Falls, Va. |
| Donna Lee Coates | Richmond, Va. |
| Sharon Wilkins Cockrell | Montross, Va. |
| Eileen Lillyan Condike | Fort Washington, Pa. |
| Nancy Jean Connor | Lynchburg, Va. |
| Mary Elizabeth Conrad | Morestown, N. J. |
| Margaret Moncure Conway | Culpeper, Va. |
| Susan Elaine Cooke | Norfolk, Va. |
| Mary Bruce Coolidge | Lynchburg, Va. |
| Linda Julia Cooper | Fredericksburg, Va. |
| Raymond Clark Cote | Fredericksburg, Va. |
| Laurie Kahn Counts | Bethesda, Md. |
| Jean Duke Courtney | Rockville, Md. |
| Phoebe Estelle Cowman | Roanoke, Va. |
| Shirley Lorraine Cross | Chantilly, Va. |
| Nancy Revell Crueger | Towson, Md. |
| Patricia Ann Cummings | Alexandria, Va. |
| Rebecca Wilson Currin | Marion, Va. |

| | |
|---|---|
| Jennifer Jan Dale | Annandale, Va. |
| Wanda Gail Dangerfield | Roanoke, Va. |
| Robin Ann Darling | Hampton, Va. |
| Denise Daunt | Falls Church, Va. |
| Christine Annetta Davis | Levittown, Pa. |
| Katherine Ann Deneke | Alexandria, Va. |
| Sally Louise Dennen | Pittsburgh, Pa. |
| Marilyn Louise Dennis | Fredericksburg, Va. |
| Linda Jeanne Desell | Alexandria, Va. |
| Robin Louise Des Jardin | Alexandria, Va. |
| Nancy Dawson Dill | Branford, Conn. |
| Donna Jamie Doane | Alexandria, Va. |
| Penelope Maxwell Doane | Upper Montclair, N. J. |
| Julianne Haynie Doggett | Baltimore, Md. |
| Janice Louine Donaldson | Alexandria, Va. |
| Wanda Jean Duff | Charlottesville, Va. |
| Kathleen Wells Duley | Annandale, Va. |
| Pamela Joan Dunn | Stony Brook, N. Y. |
| Sarah Evelyn Eaton | Fredericksburg, Va. |
| Dale Caryn Eberwein | Timonium, Md. |
| Sandra Leigh Edwards | Stuart, Va. |
| Brenda Jean Elliott | Portsmouth, Va. |
| Marianne Margaret Emery | West Caldwell, N. J. |
| Catherine Patricia Eudailey | Charlottesville, Va. |
| Sheryl Jan Evans | Forest, Va. |
| Elaine Virginia Fagan | Springfield, Mass. |
| Veronica Mary Fair | Waltham, Mass. |
| Ann Stuart Fansler | Front Royal, Va. |
| Caroline Anne Farrell | Plainview, N. Y. |
| Helen Garland Ferguson | Richmond, Va. |
| Martha Wachsmuth Fidler | Tappahannock, Va. |
| Melanie Jean Fisher | Arlington, Va. |
| Penelope Follette | Emmaus, Pa. |
| Diane Elaine Foote | McLean, Va. |
| Mary Margaret Forte | Lexington, Mass. |
| Ruth Ellen Foster | Alexandria, Va. |
| Margaret Mary Foulk | Newport News, Va. |
| Lois Marie Fox | Virginia Beach, Va. |
| Margaret Jean Fox | Newark, Del. |
| Norma F. Fox | Holden, Mass. |
| Susan Carolyn Fox | Warrenton, Va. |
| Brenda Jean Franklin | Newport News, Va. |

| | |
|---|---|
| Carol Anne Freda | Hampton, Va. |
| Philo Griffith Funk | Arlington, Va. |
| Mary Margaret Gainey | Alexandria, Va. |
| Belinda Faye Garrett | Rocky Mount, Va. |
| Zondra Kay Garrison | Fredericksburg, Va. |
| Christine Anne Gebs | McLean, Va. |
| Cathy Virginia Giles | Richmond, Va. |
| Deborah Anne Gill | Storrs, Conn. |
| Mary Davis Glazman | Fredericksburg, Va. |
| Jean Campbell Graham | Culpeper, Va. |
| Anne Gordon Greever | Richlands, Va. |
| Genevieve May Grigg | Alexandria, Va. |
| Joseph Richard Grimes | Fredericksburg, Va. |
| Stephanie Jean Grogan | Alexandria, Va. |
| Lemuel Wilson Gunn | Woodbridge, Va. |
| Frances Ann Guthrie | Dillwyn, Va. |
| Terrell Elizabeth Hall | Memphis, Tenn. |
| Virginia Ann Hamer | Ft. Lauderdale, Fla. |
| Madeline Wootten Haney | Fredericksburg, Va. |
| Kathryn Louise Hanna | Richmond, Va. |
| Susan Christine Hansen | Erie, Pa. |
| Patricia Ann Hargrove | Glen Allen, Va. |
| Shirley Theresa Harris | Richmond, Va. |
| Martha Blair Harrison | Ft. Knox, Ky. |
| Karen Jean Harwood | Arlington, Va. |
| Fredericka Jean Hastings | Canton, Ohio |
| Pearl Ann Hawk | Virginia Beach, Va. |
| Carol Jean Hazucha | Upper Nyack, N. Y. |
| Jeanne M. Helmandollar | Salem, Va. |
| Beverly Ruth Heminway | Elkhart, Ind. |
| Jane Augusta Henderson | Alexandria, Va. |
| Sally Louise Henry | Arlington, Mass. |
| Donna Sue Herberg | Arlington, Va. |
| Claudia Ann Herring | Hampton, Va. |
| Margaret Lucinda Herron | Toledo, Ohio |
| Nancy Lee Hevener | Hightown, Va. |
| Sharan Jeannette Hill | Leesburg, Va. |
| Katherine Ellen Hoffman | Springfield, Va. |
| Lynn Ellen Hoffman | Hackettstown, N. J. |
| Sheridan Tee Holstein | Staunton, Va. |
| Dona Jean Holt | Spout Spring, Va. |
| Julia Bowles Hood | Martinsville, Va. |
| Marsha Ann Hosey | Fredericksburg, Va. |

| | |
|---|---|
| Martha Sue Houchins | Richmond, Va. |
| Nancy Rhea Houghton | South Boston, Va. |
| Cynthia Amelia Houliares | Lynchburg, Va. |
| Jacqueline Anne Huard | McLean, Va. |
| Mary Lou Hunn | Arlington, Va. |
| Mary Prudence Hutton | Newton, Kansas |
| Pamela Brewster Hydrick | Richmond, Va. |
| Anne Keith Lee Irvin | Alexandria, Va. |
| Ella Beatrice Jacobs | Fredericksburg, Va. |
| Christie Holmes Jaeger | Baltimore, Md. |
| Karen Tucker Jenkins | Virginia Beach, Va. |
| Betty Jo Jeter | Roanoke, Va. |
| Nancy Ellen Johnson | Annandale, Va. |
| Nanette Kendall Johnson | Painter, Va. |
| Maria Patricia Jones | Richmond, Va. |
| Pamela Redding Junge | Colorado Springs, Colo. |
| Ilona Kardos | Richmond, Va. |
| Eileen Margaret Keavy | Chester, Va. |
| Penny Ann Keller | Hightstown, N. J. |
| Linda Pyle Kennard | Charlottesville, Va. |
| Janet Cherry Kimbrell | Fredericksburg, Va. |
| Sandra Morris Klemmer | Stafford, Va. |
| Ann Marie Krell | Arlington, Va. |
| Karen Ann Kuecker | Hampton, Va. |
| Ruth Emery Laird | Williamsburg, Va. |
| Pamela Sue Landreth | N. Springfield, Va. |
| Susan Michele Langlais | Cocoa Beach, Fla. |
| Deborah Soux Lawrence | Portsmouth, Va. |
| Dorothy Roberts Lay | Winchester, Va. |
| Diana Bair Lee | Fredericksburg, Va. |
| Joan Critz Limberick | Fredericksburg, Va. |
| Patric Griffin Link | Baltimore, Md. |
| Eva Allen Little | Newport News, Va. |
| Pamela Jane McAfee | Bethesda, Md. |
| Ruthanna Morgan McBride | Newport News, Va. |
| Candace Smith McCall | Fredericksburg, Va. |
| Mary Catherine McCarter | Alexandria, Va. |
| Jeanne McCormack | Bellevue, Wash. |
| Maureen Lyons McKane | Fredericksburg, Va. |
| Martha Ruth McKee | Virginia Beach, Va. |
| Margaret Marie McMahon | Falls Church, Va. |
| Nancy Edith Mahone | Roanoke, Va. |
| Julia Carole Martin | Roanoke, Va. |

| | |
|---|---|
| Margaret Ann Martin | Madison Heights, Va. |
| Mary Elizabeth Marvey | Arlington, Va. |
| Elizabeth Anne Massey | Richmond, Va. |
| Martha Margo Master | Willingboro, N. J. |
| Robby Ann Maxson | McLean, Va. |
| Jo Ellen Mayfield | Chesterfield, Mo. |
| Charlotte Anne Maynard | Fredericksburg, Va. |
| Joan Elizabeth Mielke | Waterloo, Belgium |
| Carol Evans Miley | Toms Brook, Va. |
| Bonnie Lee Mills | Fredericksburg, Va. |
| Signe Pabst Minor | Alexandria, Va. |
| Valerie Catherine Mirto | Jamaica Estates, N. Y. |
| Sherrie Leigh Mitchell | Vinton, Va. |
| Annette Marie Monsour | Falls Church, Va. |
| Janice Elaine Moore | Suffolk, Va. |
| Patricia Ann Morgan | Silver Spring, Md. |
| Susan Elizabeth Morgan | Locust Grove, Va. |
| Sophie Katherine Nagy | Herndon, Va. |
| Jennifer Anne Nere | Fredericksburg, Va. |
| Barbara Jean Nold | Norfolk, Va. |
| Julia May Obarski | Orlando, Fla. |
| Mary Geralyn O'Grady | McLean, Va. |
| Elizabeth Jean Pabst | Columbia, S. C. |
| Melody Elaine Pace | Charlottesville, Va. |
| Janet Linda Pease | Manassas, Va. |
| Karen S. Perry | Kalamazoo, Mich. |
| Anne Patricia Phillips | Richmond, Va. |
| Cindy Louise Phillips | Fredericksburg, Va. |
| Elizabeth Candace Pigg | Arlington, Va. |
| Roberta Junee Pilk | Falls Church, Va. |
| Constance Meek Pittard | Richmond, Va. |
| Stephanie Camille Poor | Holliston, Mass. |
| Alice Jean Powers | Norfolk, Va. |
| Mary Kathryn Powers | Portsmouth, Va. |
| Joy Ellen Praet | Oceanport, N. J. |
| Laurel Edith Praet | Oceanport, N. J. |
| Marsha Graves Price | Fredericksburg, Va. |
| Cheryl Elaine Prietz | Tenafly, N. J. |
| Marilyn Ruth Pucillo | Cedar Grove, N. J. |
| Elizabeth Norment Pully | Richmond, Va. |
| Jill Ann Purkrabek | Arlington, Va. |
| Carol Lee Quaintance | Arlington, Va. |
| Kathryn Collison Ray | Arlington, Va. |

| | |
|---|---|
| Jane Farrell Reilly | Richmond, Va. |
| Susan Anne Reppert | Bethlehem, Pa. |
| Jacqueline Ann Resch | Fredericksburg, Va. |
| Ann Conway Reynolds | McLean, Va. |
| Elaine Virvos Rice | Fredericksburg, Va. |
| Patricia Lee Rickman | Norfolk, Va. |
| Katherine Eloise Roark | Nathalie, Va. |
| M. Sue Rogers | Nashville, Tenn. |
| Linda Sue Runckel | Newport News, Va. |
| Sherry Diane Rutherford | Sparks, Md. |
| Linda Carol Ryan | South Amboy, N. J. |
| Carolyn Jean Sadler | Richmond, Va. |
| Kerrie Ann Sandefur | Minnetonka, Minn. |
| Anne King Sandman | Alexandria, Va. |
| John Bernard Sansone | Fredericksburg, Va. |
| Mary Elizabeth Saunders | Chuckatuck, Va. |
| Patricia Lynn Sawyer | Portsmouth, Va. |
| Megan Drake Schell | Newport News, Va. |
| Carol Renee Schreiber | Fairfax, Va. |
| Ann Elizabeth Scott | Springfield, Va. |
| Gail Sherwood | Norfolk, Va. |
| Claudia Ann Sholar | Chester, Va. |
| Victoria Anne Silek | Front Royal, Va. |
| Nancy Wainwright Silverman | Baldwin, N. Y. |
| Meredith Bannister Smith | Alexandria, Va. |
| Shirley M. Smith | McLean, Va. |
| Suzanne McBride Smith | Fredericksburg, Va. |
| Wendy Sue Smith | McLean, Va. |
| Cathryn Lee Smullen | Interlaken, N. J. |
| Donna Paige Snead | Clifton Forge, Va. |
| Judith Elizabeth Sommervold | Petersburg, Va. |
| Nancy Jean Spangler | York, Pa. |
| Julianne Bishop Spann | Ft. Belvoir, Va. |
| Marilyn Edith Staklo | Springfield, Va. |
| Ruth Sharpe Staley | Vienna, Va. |
| Stephanie A. Steiger | Greenville, S. C. |
| Mary Lou Stevens | Alexandria, Va. |
| Carol Anne Storment | Fort Detrick, Md. |
| Christine Anne Stover | Falls Church, Va. |
| Kathleen Anne Sullivan | Annandale, Va. |
| Jill Summerbell | Sparta, N. J. |
| Patricia Lynn Sutherland | Wytheville, Va. |
| Rhonda Lou Sweeney | Smithfield, Va. |

| | |
|---|---|
| Stephanie Sweeny | Arlington, Va. |
| Anne Estell Sylvester | Queen Anne, Md. |
| Diane Kathleen Tabachik | Arlington, Va. |
| Judith Helen Tankersley | Roanoke, Va. |
| Barbara Ellen Taylor | Wyalusing, Pa. |
| Dorothea Potter Teipel | Honolulu, Hawaii |
| Deborah Bradford Thoens | Virginia Beach, Va. |
| Kathryn Heins Thompson | Vienna, Va. |
| Catharine Louise Tidball | Annandale, Va. |
| Judith Faye Tignor | Newport News, Va. |
| Anne Prewitt Toms | Richmond, Va. |
| Elizabeth Corbin Townes | Martinsville, Va. |
| Roberta Noyes Tuttle | Wytheville, Va. |
| Charlotte Laws Tyndall | Calverton, Va. |
| Jean L. Valley | McLean, Va. |
| Susan Canada VanHorn | Chesapeake, Va. |
| Natalie George Vestal | Lovingston, Va. |
| Judith Tucker Vogler | Cape Elizabeth, Maine |
| Barbara Louise Walker | Arlington, Va. |
| Ronayne Jacqueline Wall | West Haven, Conn. |
| Ellen Baker Waller | Augusta, Ga. |
| Connie Elizabeth Ward | Blackstone, Va. |
| Pamela Jane Weaver | Richmond, Va. |
| Sharon Smith Weedon | Springfield, Va. |
| Mary Ann Wegener | Norfolk, Va. |
| Charlotte Lee Weitzel | Salisbury, Md. |
| M. Linda Lee West | Fredericksburg, Va. |
| Susan Elizabeth White | Oxon Hill, Md. |
| Martha Tredway Whitehead | Norfolk, Va. |
| Jane Rice Wilkinson | Williamsburg, Va. |
| Jane Marie Wille | Copperas Cove, Texas |
| Lavlette Zora Williams | Richmond, Va. |
| Lynne Christine Williams | S. Dartmouth, Mass. |
| Elisabeth Marguerite Wilson | Arlington, Va. |
| Cynthia Jane Winchell | Northfield, N. J. |
| Brenda Karen Wirt | Lynchburg, Va. |
| Kitty VanLew Wyche | Virginia Beach, Va. |
| Patricia Ruth Young | Point Pleasant Beach, N. J. |

## Bachelor of Science

*With Honors in Physics*

| | |
|---|---|
| Linda Louise Jones | Fredericksburg, Va. |

## Bachelor of Science

| | |
|---|---|
| Julia Jamelle Ameen | Hopewell, Va. |
| Jeannette Ann Coffey | Richmond, Va. |
| Susan Courtenay Crisp | Johnson City, Tenn. |
| Sarah Hewes Cross | Suffolk, Va. |
| Jane Elizabeth Danforth | Virginia Beach, Va. |
| Janet Diane Dempster | Barrington, Ill. |
| Dolores Mary Driscoll | Falls Church, Va. |
| Ardella LeeHelen Drogin | San Francisco, Cal. |
| Renie Eis | Pompton Lakes, N. J. |
| Elizabeth Lee Flippo | Falmouth, Va. |
| Barbara Phyllis Friedman | Falls Church, Va. |
| Nancy Jane Gabocy | Alexandria, Va. |
| Janice Elisa Gentry | Alexandria, Va. |
| Susan Lyle Hall | Fredericksburg, Va. |
| Ann Balsley Hodges | Baltimore, Md. |
| Karen Mae Holleran | Seaford, N. Y. |
| Martha Gail Laws | Newport News, Va. |
| Sarah Ann Lemmon | Manassas, Va. |
| Elizabeth Gayle Lewis | Gloucester, Va. |
| Mary Kathryn McFadyen | Springfield, Va. |
| Patricia Ann McQueen | Portsmouth, R. I. |
| Adele Louise Marshall | Charlottesville, Va. |
| Glenda Leggette Newbill | Fredericksburg, Va. |
| Roberta Lynn Palmer | Penns Grove, N. J. |
| Susan Elizabeth Palmer | N. Springfield, Va. |
| Margaret Elizabeth Patterson | Hampton, Va. |
| Carole Findlay Phipps | Houston, Texas |
| Willa Sue Powell | Smithfield, Va. |
| Eileen Marion Reynolds | Flushing, N. Y. |
| Susan Elizabeth Ridd | Fairfax, Va. |
| Judith Anne Robinson | Richmond, Va. |
| Renata Slijepcevic | Alexandria, Va. |
| Betsy Weathers Smith | Alexandria, Va. |
| Sandra Kaye Smith | Stafford, Va. |
| Pamela Ann Spargo | Westerly, R. I. |
| Debra Caroline Stanley | Falls Church, Va. |
| Martha Long Stansell | Richmond, Va. |

| | |
|---|---|
| Rebecca Culbertson Stuart | Alexandria, Va. |
| Susan Nelle Szpara | Richmond, Va. |
| Phyllis Tomlin Tanner | Fredericksburg, Va. |
| Nancy Hayden Thornton | Hampton, Va. |
| Susan Patricia Tracy | Alexandria, Va. |
| Laura Smith Vinson | Petersburg, Va. |
| Nancy Page Ware | Portsmouth, Va. |
| Elaine L. Whitehurst | Virginia Beach, Va. |
| Nancy Funnell Wileman | Woodbridge, Va. |
| Lorelee Anne Wilson | Glen Allen, Va. |

### Bachelor of Science in Medical Technology

| | |
|---|---|
| Barbara Lynn Mitchell | Shillington, Pa. |
| Tucker Anne Roane | Mobile, Ala. |

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS BY STATES AND COUNTRIES

### Session 1972-73

| | | | |
|---|---|---|---|
| Virginia | 1559 | Oklahoma | 5 |
| New Jersey | 145 | Washington | 5 |
| Maryland | 112 | Hawaii | 4 |
| New York | 102 | Maine | 3 |
| Pennsylvania | 79 | Mississippi | 3 |
| Connecticut | 35 | Texas | 3 |
| Delaware | 28 | Colorado | 2 |
| Massachusetts | 23 | New Hampshire | 2 |
| North Carolina | 19 | Utah | 2 |
| Florida | 17 | Wisconsin | 2 |
| Ohio | 15 | Alabama | 1 |
| California | 9 | Alaska | 1 |
| Rhode Island | 9 | Arizona | 1 |
| South Carolina | 7 | Kansas | 1 |
| Tennessee | 7 | Kentucky | 1 |
| Georgia | 6 | Louisiana | 1 |
| Illinois | 6 | Montana | 1 |
| Michigan | 6 | New Mexico | 1 |
| Missouri | 6 | South Dakota | 1 |
| West Virginia | 6 | Wyoming | 1 |
| District of Columbia | 5 | Foreign Countries | 4 |
| | | | 2246 |

Academic Achievement, Recognition of ..... 17
Academic Distinction ..... 18
Academic Probation and Suspension ..... 15
Academic Regulations ..... 8
Academic Requirements ..... 7
Accommodations, Residential (See Admissions Catalogue)
Administration ..... 148
Admissions

Admissions (See Admissions Catalogue)
Requirements for Entering Freshmen
Directions for Applying
Early Decision Plan
Advanced Placement
Deferred Enrollment
College Level Examinations
Requirement for Students Transferring from other Colleges
Transfer of Credits
Requirements for Special Students
To the Summer Session for Selected High School Students
Directions for Readmission
Advanced Placement (See Admissions Catalogue)
Alpha Phi Sigma Award ..... 19
Alternate Degree Program Allowing for Greater Concentration ..... 21
American Studies ..... 27
American Studies, Course Offerings ..... 46
Applying, Directions for (See Admissions Catalogue)
Art, Course Offerings ..... 47
Art, History of ..... 47
Art, Studio Major ..... 48
Asian Studies ..... 28
Asian Studies, Course Offerings ..... 53
Astronomy, Course Offerings ..... 54
Attendance ..... 11
Audiology and Speech Pathology, Cooperative Program in ..... 43
Awards ..... 18
Bachelor of Arts Degree, Requirements for ..... 20
Band and Orchestra, Course Offerings ..... 126
Basic Requirements ..... 20
Biology, Course Offerings ..... 54
Board of Visitors ..... 48
Calendar ..... 4
Certification Requirements
For Kindergarten Through Seven ..... 74
For Secondary Subjects ..... 76
Change of Schedule or Courses ..... 10
Character of Science, Interdepartmental Course ..... 106
Chemistry, Course Offerings ..... 59

Class Attendance ..... 10
Classical Civilization ..... 28
Classical Civilization, Course Offerings ..... 64
Classics, Course Offerings ..... 61
Classification as a Virginia Student (See Admissions Catalogue)
Classification of Students ..... 8
Colgate W. Darden, Jr., Award ..... 18
College, The (See Admissions Catalogue)
History
Location and Campus
College-Level Examination Programs ..... (See Admissions Catalogue)
College Calendar ..... 5
Cooperative Programs ..... 33
Cooperative Program in
Medical Technology ..... 33
Physical Therapy ..... 41
Nursing ..... 37
Speech Pathology and Audiology ..... 43
Course Offerings ..... 45
American Studies ..... 46
Art ..... 47
Asian Studies ..... 53
Astronomy ..... 54
Biology ..... 54
Chemistry ..... 59
Classics ..... 61
Dramatic Arts ..... 65
Economics and Political Science ..... 68
Education ..... 74
English ..... 83
Geography ..... 88
Geology ..... 92
Health, Physical Education and Recreation ..... 94
History ..... 100
Home Economics ..... 104
Latin American Studies ..... 106
Linguistics ..... 106
Mathematics ..... 107
Modern Foreign Languages ..... 110
Music ..... 122
Philosophy ..... 127
Physics ..... 131
Psychology ..... 132
Religion ..... 137
Sociology ..... 140
Speech ..... 144
Statistics ..... 145
Typewriting ..... 146
Course, Repeating a ..... 14
Courses, Change of ..... 10
Credit by Examination ..... 12
Dance, Course Offerings ..... 96
Dean's List ..... 17

Deferred Enrollment ..... (See Admissions Catalogue)
Deficiencies ..... 14
Degrees Conferred, June 1972 ..... 178
Degrees Offered
  Requirements for ..... 20
  Degree of Bachelor of Arts ..... 20
Demonstration of Competence
  English Composition
  Foreign Language ..... 21
Directions for Readmission to the College (See Admissions Catalogue)
Directory ..... 148
Distinction, Academic ..... 18
Diversification ..... 21
Dramatic Arts, Course Offerings ..... 65
Early Decision Plan ..... (See Admissions Catalogue)
Economics, Course Offerings ..... 68
Economics and Political Science,
  Course Offerings ..... 70
Education, Course Offerings ..... 74
Elective Courses ..... 21
Employment, Student ..... (See Admissions Catalogue)
Enforced Withdrawal ..... 16
English, Course Offerings ..... 84
Examination, Credit by ..... 12
Excess Hours ..... 10
Expenses and Fees (See Admissions Catalogue)
Faculty ..... 157
Failures ..... 12
Fees (See Admissions Catalogue)
  Refund of
  Application
  Terms of Payment
  Credit
  Other
  Contingent
  Off-Campus Teacher Training
Fees and Expenses (See Admissions Catalogue)
Final Honors ..... 18
Financial Assistance (See Admissions Catalogue)
Foreign Languages ..... 25
French, Course Offerings ..... 111
Geographical Distribution of Students ..... 187
Geography, Course Offerings ..... 88
Geology, Course Offerings ..... 92
German, Course Offerings ..... 115
Grading ..... 11
Grants and Scholarships (See Admissions Catalogue)
Grants for Further Undergraduate Research ..... 19
Greek, Course Offerings ..... 62
Grellet C. Simpson Award ..... 19

Health (See Admissions Catalogue)
Health, Course Offerings . . . . . 94
High School Students, Admission to the
Summer Session (See Admissions Catalogue)
History, Course Offerings . . . . . 100
History and Literature of Music, Course
Offerings . . . . . 125
History of Art Major . . . . . 47
Honors . . . . . .
Intermediate 17
Final 18
Home Economics, Course Offerings . . . . . 104
Hours, Excess . . . . . 10
Individual Instruction in Music . . . . . 14
Band, Chorus and String Ensemble . . . . . 126
Interdepartmental Course . . . . . 106
Interdepartmental Majors . . . . . 27
Intermediate Honors . . . . . 17
Introduction, Academic Rules and Regulations . . . . . 7
Italian, Course Offerings . . . . . 115
Japanese, Course Offerings . . . . . 117
Junior Year Abroad . . . . . 26
Latin, Course Offerings . . . . . 62
Latin American Studies . . . . . 29
Latin American Studies, Course Offerings . . . . . 106
Linguistics, Course Offerings . . . . . 106
Load, Student . . . . . 8
Loans (See Admissions Catalogue)
Major Program . . . . . 21
Majors . . . . . 23
Marriage . . . . . 17
Mathematics, Course Offerings . . . . . 107
Medical Technology, Cooperative Program in . . . . . 33
Modern Foreign Languages, Course Offerings . . . . . 110
Music, Individual Instruction in . . . . . 126
Music, Course Offerings . . . . . 122
Nursing, Cooperative Program in . . . . . 37
Offerings, Course . . . . . 45
Organization, Academic . . . . . 7
Pass/Fail . . . . . 12
Philosophy, Course Offerings . . . . . 127
Physics, Course Offerings . . . . . 131
Physical Education, Course Offerings . . . . . 95
Physical Education, Requirements . . . . . 21
Physical Therapy, Cooperative Program in . . . . . 41
Planning the Total Four-Year Program . . . . . 24
Political Economy and Public Affairs Major . . . . . 73
Political Science, Course Offerings . . . . . 70
Portuguese, Course Offerings . . . . . 117
Public Affairs and Political Economy Major . . . . . 73
Pre-Foreign Service . . . . . 30
Pre-Medical Program . . . . . 24

Probation, Academic . . . . . 15
Program in Human Learning . . . . . 25
Program of Studies . . . . . 20
Psychology, Course Offerings . . . . . 132
Quality-point Average . . . . . 14
Quality Points . . . . . 13
Readmission to the College, Directions for
(See Admissions Catalogue)
Recognition of Academic Achievement . . . . . 17
Religion, Course Offerings . . . . . 137
Repeating a Course . . . . . 14
Reports, Deficiencies and Failures . . . . . 14
Requirements, Basic . . . . . 20
Requirements for a Degree . . . . . 9
Residential Dormitory Accommodations
(See Admissions Catalogue)
Russian, Course Offerings . . . . . 117
Russian Studies . . . . . 31
Schedule, Change of . . . . . 10
Scholarship Quality Points . . . . . 13
Semester Plan . . . . . 7
Social Welfare, Concentration in . . . . . 144
Sociology, Course Offerings . . . . . 140
Spanish, Course Offerings . . . . . 118
Special Major Program . . . . . 24
Special Students, Admission Requirements for
(See Admissions Catalogue)
Speech, Course Offerings . . . . . 144
Speech Pathology and Audiology,
Cooperative Program in . . . . . 43
Statistics, Course Offerings . . . . . 145
Student Employment (See Admissions Catalogue)
Student Life (See Admissions Catalogue)
Student Load . . . . . 8
Studio Art Major . . . . . 48
Summer Session . . . . . 7
Supervised Teaching . . . . . 82
Suspension, Academic . . . . . 15
Teaching, Supervised . . . . . 82
Theory of Music, Course Offerings . . . . . 123
Transcripts . . . . . 17
Transfer of Credits (See Admissions Catalogue)
Typewriting . . . . . 146
Undergraduate Research, Grants for Furthering . . . . . 19
Visitors, Board of . . . . . 148
Voluntary Withdrawal . . . . . 16
Withdrawal . . . . . 16
Voluntary
Enforced
While on Probation

Mary
Washington
College

Fredericksburg,
Virginia 22401